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Natural
Resources
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Service

Washington Water Supply Outlook Report May 1, 2007



Water Supply Outlook Reports and Federal - State – Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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Washington Water Supply Outlook

May 2007

General Outlook

Spring and summer streamflow forecasts dropped once again due to below average precipitation and very little mountain snow accumulation during the month of April. The Jet Stream managed to bring near average precipitation only to the Olympic Peninsula and North Puget Sound areas while continuing to build on British Columbia's record breaking year. Short term weather forecasts indicate some instability with mixed conditions through the month. The Climate Prediction Center is now forecasting equal chances of below, above or average temperature and precipitation for the next 90-day period. The snow survey staff is gearing up for summer maintenance so please remind us of any SNOTEL or snow course maintenance issues that need addressed.

Snowpack

The May 1 statewide SNOTEL readings were 93% of average, down only 5% from April 1. The Walla Walla River Basin reported the lowest readings at 35% of average. Readings in the Cedar River Basin reported the highest at 126% of average. Westside averages from SNOTEL, and May 1 snow surveys, included the North Puget Sound river basins with 107% of average, the Central Puget river basins with 88%, and the Lewis-Cowlitz basins with 101% of average. Snowpack along the east slopes of the Cascade Mountains included the Yakima area with 79% and the Wenatchee area with 75%. Snowpack in the Spokane River Basin was at 60% and the Pend Oreille River Basin had 71% of average. Maximum snow cover in Washington was at Lyman Lake SNOTEL, with water content of 69.4 inches. Last year at this time Lyman Lake had 68.8 inches of snow water. The highest average in the state was at Burnt Mountain SNOTEL with 182% of average.

BASIN	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Spokane	67	60
Newman Lake	18	29
Pend Oreille	72	71
Okanogan	83	88
Methow	97	96
Conconully Lake	0	0
Wenatchee	72	76
Chelan	94	95
Upper Yakima	67	76
Lower Yakima	66	77
Ahtanum Creek	46	58
Walla Walla	31	35
Lower Snake	57	60
Cowlitz	82	96
Lewis	64	104
White	75	89
Green	78	80
Puyallup	75	94
Cedar	72	126
Snoqualmie	80	100
Skykomish	85	103
Skagit	108	106
Baker	92	95
Nooksack	100	122
Olympic Peninsula	95	94

Precipitation

During the month of April, the National Weather Service and Natural Resources Conservation Service climate stations reported mostly below average precipitation totals throughout Washington river basins. The highest percent of average in the state was at Elbow Lake SNOTEL which reported 135% of average for a total of 10.8 inches. In contrast Rimrock Lake reported the lowest monthly total with only .02inches or 4% of the average. The only basins with near average precipitation were the Olympic Peninsula and the North Puget Sound with the Olympics bouncing back from last months lowest to being the highest at 95%. All other basins in the state fell well short receiving as little as one-half and only as much as three-quarters normal rainfall.

RIVER BASIN	APRIL PERCENT OF AVERAGE	WATER YEAR PERCENT OF AVERAGE
Spokane	50.....	104
Colville-Pend Oreille	51.....	106
Okanogan-Methow	49.....	106
Wenatchee-Chelan	61.....	112
Upper Yakima	51.....	112
Lower Yakima	62	115
Walla Walla	55.....	96
Lower Snake	75	94
Cowlitz-Lewis	56	103
White-Green-Puyallup	67.....	109
Central Puget Sound	76.....	120
North Puget Sound	90.....	112
Olympic Peninsula	95	92

Reservoir

Seasonal reservoir levels in Washington vary greatly due to specific watershed management practices required in preparation for irrigation season, fisheries management, power generation, municipal demands and flood control. Reservoir storage in the Yakima Basin was 782,000-acre feet, 126% of average for the Upper Reaches and 197,000-acre feet, 116% of average for Rimrock and Bumping Lakes. Storage at the Okanogan reservoirs was 115% of average for May 1. The power generation reservoirs included the following: Coeur d'Alene Lake, 168,000 acre feet, 67% of average and 70% of capacity; Chelan Lake, 427,000-acre feet, 161% of average and 63% of capacity; Skagit River reservoirs at 120% of average and 64% of capacity and the Cowlitz - Lewis reservoir systems with 2,777,000-acre feet of storage.

BASIN	PERCENT OF CAPACITY	CURRENT STORAGE AS PERCENT OF AVERAGE
Spokane	70.....	67
Colville-Pend Oreille	62	102
Okanogan-Methow	93	115
Wenatchee-Chelan	63	161
Upper Yakima	94	126
Lower Yakima	85	116
Lower Snake	87	124
Cowlitz-Lewis	Average not Established	
North Puget Sound	64	120

Streamflow

Forecasts vary from 107% of average for the Columbia River at Birchbank to 49% of average for Salmon Creek near Conconully. May-September forecasts for some Western Washington streams include the Cedar River near Cedar Falls, 90%; White River, 91%; and Skagit River, 91%. Some Eastern Washington streams include the Yakima River near Parker, 93%; Wenatchee River at Plain, 97%; and Spokane River near Post Falls, 73%. Volumetric forecasts are developed using current, historic and average snowpack, precipitation and streamflow data collected and coordinated by organizations cooperating with NRCS. Caution should be used when using early season forecasts for critical water resource management decisions.

Statewide April streamflows were mostly near average with a few pushing the limits either way. The Similkameen at Nighthawk had the highest reported flows with 244% of average. The Grande Ronde River at Troy with 61% of average was the lowest in the state. Other streamflows were the following percentage of average as reported by the River Forecast Center: the Cowlitz at Castle Rock, 93%; the Spokane at Spokane, 86%; and the Bumping near Nile, 111%.

BASIN	PERCENT OF AVERAGE (50 PERCENT CHANCE OF EXCEEDENCE)
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Spokane	73-77
Colville-Pend Oreille	74-107
Okanogan-Methow	49-105
Wenatchee-Chelan	87-103
Upper Yakima	78-100
Lower Yakima	60-100
Walla Walla	88
Lower Snake	66-77
Cowlitz-Lewis	67-99
White-Green-Puyallup	82-91
Central Puget Sound	85-105
North Puget Sound	90-95
Olympic Peninsula	89-95

STREAM	PERCENT OF AVERAGE APRIL STREAMFLOWS
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Pend Oreille Below Box Canyon	102
Kettle at Laurier	108
Columbia at Birchbank	116
Spokane at Long Lake	86
Similkameen at Nighthawk	244
Okanogan at Tonasket	197
Methow at Pateros	207
Chelan at Chelan	151
Wenatchee at Pashastin	124
Yakima at Cle Elum	99
Yakima at Parker	106
Naches at Naches	110
Grande Ronde at Troy	61
Snake below Lower Granite Dam	66
SF Walla Walla near Milton Freewater	99
Columbia River at The Dalles	90
Lewis at Ariel	75
Cowlitz below Mayfield Dam	93
Skagit at Concrete	127
Dungeness near Sequim	108

For more information contact your local Natural Resources Conservation Service office.

BASIN SUMMARY OF SNOW COURSE DATA

MAY 2007

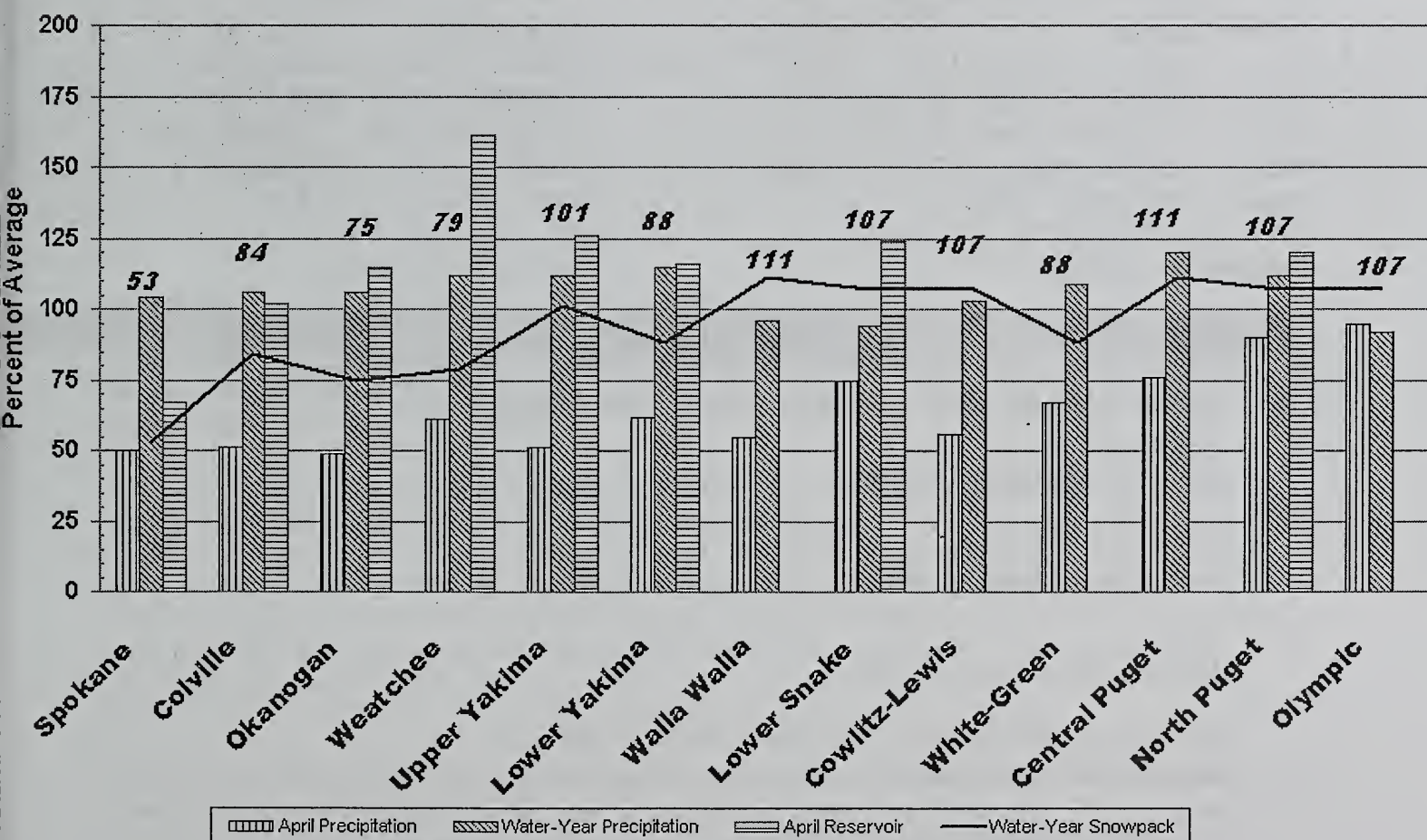
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1971-00	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1971-00
ALPINE MEADOWS SNTL	3500	5/01/07	92	56.0	62.2	45.8	LOGAN CREEK	4300	4/27/07	0	.0	1.6	1.7
AMBROSE	6480	5/02/07	21	8.2	11.5	11.1	LOLO PASS SNOTEL	5240	5/01/07	29	13.0	25.8	24.5
ASHLEY DIVIDE	4820	5/01/07	0	.0	.0	1.1	LONE PINE SNOTEL	3800	5/01/07	63	33.9	50.8	34.2
BADGER PASS SNOTEL	6900	5/01/07	63	30.8	32.6	36.2	LOOKOUT SNOTEL	5140	5/01/07	37	17.1	22.3	27.2
BARRE CREEK	5500	4/26/07	62	28.5	41.8	40.3	LOST HORSE SNOTEL	5000	5/01/07	0	.0	12.5	10.7
BARRE MIDWAY	4600	4/26/07	46	21.1	31.5	27.4	LOST LAKE SNOTEL	6110	5/01/07	---	44.7	53.5	59.7
BARRE TRAIL	3800	4/26/07	0	.0	5.8	1.3	LOWER SANDS CREEK #2	3120	5/02/07	23	10.3	17.5	15.8
BARKER LAKES SNOTEL	8250	5/01/07	42	16.0	17.2	16.2	LUBRECHT FOREST NO 3	5450	5/01/07	0	.0	.0	1.7
BARNES CREEK CAN.	5320	4/30/07	37	24.7	17.4	19.7	LUBRECHT FOREST NO 4	4650	5/01/07	0	.0	.0	.1
BASIN CREEK SNOTEL	7180	5/01/07	20	7.4	11.5	10.0	LUBRECHT FOREST NO 6	4040	5/01/07	0	.0	.0	.0
BASSOO PEAK	5150	4/27/07	0	.0	2.7	3.2	LUBRECHT HYDROPLOT	4200	5/01/07	0	.0	.0	.1
BEAVER CREEK TRAIL	2200	4/25/07	0	.0	2.4	4.4	LUBRECHT SNOTEL	4680	5/01/07	0	.0	.0	.5
BEAVER PASS	3680	4/25/07	71	33.2	30.8	27.2	LYMAN LAKE SNOTEL	5900	5/01/07	133	69.4	68.8	67.2
BEAVER PASS SNOTEL	3680	5/01/07	89	43.3	41.4	35.5	LYNN LAKE	4000	4/28/07	36	17.2	20.6	14.5
BLACK MOUNTAIN	7750	4/27/07	49	17.6	19.0	16.9	MARIAS PASS	5250	4/26/07	19	8.3	9.7	12.5
BLACK PINE SNOTEL	7100	5/01/07	14	4.3	8.5	11.0	MARTEN RIDGE SNOTEL	3560	5/01/07	107	47.3	--	--
BLACKWALL PEAK CAN.	6370	5/01/07	---	38.4	27.8	34.9	MEADOWS CABIN	1900	4/26/07	0	.0	.0	1.1
BLEWETT PASS#2SNOTEL	4270	5/01/07	0	.0	2.4	5.0	MEADOWS PASS SNOTEL	3240	5/01/07	---	15.8	24.5	10.8
BLUE LAKE	5900	4/26/07	37	16.4	14.9	22.4	M F NOOKSACK SNOTEL	4980	5/01/07	122	69.3	65.9	--
BRENDA MINE CAN.	4450	5/01/07	---	6.2	10.2	9.3	MICA CREEK SNOTEL	4750	5/01/07	25	10.8	11.4	15.3
BROOKMERE CAN.	3000	4/30/07	5	2.4	2.4	4.0	MINERAL CREEK	4000	4/28/07	0	.0	.0	9.6
BROWN TOP AM	6000	4/25/07	150	73.3	60.0	62.1	MINERS RIDGE SNOTEL	6200	5/01/07	123	47.4	56.4	56.9
BRUSH CREEK TIMBER	5000	4/30/07	0	.0	2.2	3.6	MISSEZULA MTN CAN.	5080	4/30/07	7	2.9	2.2	5.5
BULL MOUNTAIN	6600	4/27/07	0	.0	.6	2.6	MISSON CREEK CAN.	5840	5/01/07	---	18.7	22.4	21.3
BUMPING LAKE (NEW)	3400	4/30/07	7	3.4	11.2	10.4	MORRISSEY RIDGE CAN.	6100	5/01/07	---	31.7	31.0	27.2
BUMPING RIDGE SNOTEL	4600	5/01/07	---	21.5	32.2	27.5	MORSE LAKE SNOTEL	5400	5/01/07	98	47.4	68.4	57.0
BUNCHGRASS MDWSNOTEL	5000	5/01/07	41	17.3	32.7	28.6	MOSES MTN SNOTEL	4800	5/01/07	13	6.5	22.8	10.9
BURNT MOUNTAIN PIL	4200	5/01/07	23	10.2	14.1	5.6	MOSQUITO RDG SNOTEL	5200	5/01/07	---	23.1	33.1	32.2
CAYUSE PASS SNOTEL	5200	5/01/07	114	57.0	--	--	MOULTON RESERVOIR	6850	5/01/07	---	.0E	7.9	3.5
CHESSMAN RESERVOIR	6200	4/27/07	0	.0	.5	1.7	MOUNT BLUM AM	5800	5/01/07	---	70.0e	71.8	72.4
CHICKEN CREEK	4060	4/24/07	21	8.1	10.2	5.4	MOUNT CRAG SNOTEL	4050	5/01/07	60	24.7	26.0	27.8
COMBINATION SNOTEL	5600	5/01/07	0	.0	.0	1.2	MT. KOBAL CAN.	5500	4/29/07	30	10.5	16.7	12.8
COPPER BOTTOM SNOTEL	5200	5/01/07	0	.0	.0	4.5	MOWICH SNOTEL	3150	5/01/07	0	.0	.0	--
COPPER MOUNTAIN	7700	4/27/07	25	6.7	14.2	10.0	MOUNT GARDNER SNOTEL	2860	5/01/07	1	2.1	8.8	4.8
CORRAL PASS SNOTEL	6000	5/01/07	78	34.9	41.0	35.3	N.F. ELK CR SNOTEL	6250	5/01/07	19	7.1	8.3	8.0
COTTONWOOD CREEK	6400	4/27/07	20	6.5	8.2	7.3	NEVADA RIDGE SNOTEL	7020	5/01/07	23	8.9	13.4	14.4
COUGAR MTN. SNOTEL	3200	5/01/07	8	4.4	10.0	11.0	NEW HOZOMEEN LAKE	2800	4/25/07	0	.0	.0	3.9
COX VALLEY	4500	4/28/07	82	42.2	41.3	37.1	NEZ PERCE CMP SNOTEL	5650	5/01/07	10	3.4	10.1	10.8
COYOTE HILL	4200	5/01/07	0	.0	.0	2.6	NEZ PERCE PASS	6570	5/01/07	---	4.0E	14.9	14.2
DALY CREEK SNOTEL	5780	5/01/07	0	.0	2.6	5.3	NOISY BASIN SNOTEL	6040	5/01/07	96	37.9	47.4	43.8
DEER PARK	5200	4/30/07	32	16.1	--	15.2	NORTH FORK JOCKO	6330	4/26/07	73	33.1	46.8	41.2
DEVILS PARK	5900	4/28/07	103	50.6	42.8	44.7	OLALLIE MDWS SNOTEL	3960	5/01/07	100	52.9	64.6	55.1
DISCOVERY BASIN	7050	5/01/07	26	9.5	9.5	9.4	OPHIR PARK	7150	4/29/07	23	8.6	13.4	16.0
DIX HILL	6400	4/29/07	0	.0	.0	3.8	OYAMA LAKE CAN.	4100	4/30/07	2	.6	1.9	2.6
DOCK BUTTE AM	3800	5/01/07	---	63.0e	72.8	62.9	PARADISE PARK SNOTEL	5500	5/01/07	124	72.9	83.0	74.8
DOMMERIE FLATS	2200	5/03/07	0	.0	.0	--	PARK CK RIDGE SNOTEL	4600	5/01/07	78	45.4	46.8	39.8
DUNGENESS SNOTEL	4100	5/01/07	0	.0	6.9	.9	PETERSON MDW SNOTEL	7200	5/01/07	34	12.1	11.0	11.0
EAST FORK R.S.	5400	4/24/07	0	.0	.0	.7	PIGTAIL PEAK SNOTEL	5900	5/01/07	105	56.9	62.6	56.5
EASY PASS AM	5200	5/01/07	---	71.0e	74.9	86.9	PIKE CREEK SNOTEL	5930	5/01/07	37	15.9	21.9	25.9
ELBOW LAKE SNOTEL	3200	5/01/07	63	34.8	36.3	32.5	PIPESTONE PASS	7200	4/27/07	6	1.2	4.8	4.8
EMERY CREEK SNOTEL	4350	5/01/07	0	.0	.7	7.4	POPE RIDGE SNOTEL	3540	5/01/07	11	5.3	13.5	7.0
ENDERBY CAN.	5800	4/29/07	100	44.5	47.6	43.5	POTATO HILL SNOTEL	4500	5/01/07	46	21.4	26.8	18.9
ESPERON CK. UP CAN.	5050	4/29/07	31	13.2	17.5	15.4	QUARTZ PEAK SNOTEL	4700	5/01/07	9	4.3	19.3	14.9
FARRON CAN.	4000	4/29/07	7	3.2	11.3	8.1	RAGGED MTN SNOTEL	4210	5/01/07	0	.0	--	--
FATTY CREEK	5500	4/26/07	50	20.8	25.3	23.4	RAGGED RIDGE	3330	4/26/07	0	.0	.0	--
FISH CREEK	8000	5/01/07	---	9.8E	13.6	11.5	RAINY PASS SNOTEL	4780	5/01/07	72	33.9	37.7	43.1
FISH LAKE	3370	5/01/07	24	12.6	29.6	23.1	RAINY PASS	4780	4/26/07	78	37.4	39.0	39.3
FISH LAKE SNOTEL	3370	5/01/07	36	17.2	27.0	28.8	REX RIVER SNOTEL	1900	5/01/07	50	27.2	34.7	19.0
FLATTOP MTN SNOTEL	6300	5/01/07	95	40.1	45.3	46.7	ROCKER PEAK SNOTEL	8000	5/01/07	39	12.8	19.1	16.6
FLEECER RIDGE	7500	4/27/07	13	4.8	11.8	8.7	ROUND TOP MTN	4020	4/26/07	0	.0	4.2	--
FOURTH OF JULY SUM	3200	4/30/07	0	.0	.0	.3	SADDLE MTN SNOTEL	7900	5/01/07	54	20.0	29.3	26.5
FREEZEOUT CK. TRAIL	3500	4/25/07	15	5.6	7.2	6.4	SALMON MDWS SNOTEL	4500	5/01/07	0	.0	5.7	3.5
FROHNER MDWS SNOTEL	6480	5/01/07	6	2.3	5.8	6.5	SASSE RIDGE SNOTEL	4200	5/01/07	54	24.2	38.4	32.5
GRASS MOUNTAIN #2	2900	4/28/07	0	.0	.0	--	SAVAGE PASS SNOTEL	6170	5/01/07	35	15.5	24.2	25.2
GRAVE CRK SNOTEL	4300	5/01/07	3	1.6	4.2	7.0	SAWMILL RIDGE	4700	4/28/07	44	22.2	26.7	32.1
GREEN LAKE SNOTEL	6000	5/01/07	46	20.3	31.3	24.6	SAWMILL RIDGE SNOTEL	4700	5/01/07	61	44.4	--	--
GREYBACK RES CAN.	4700	4/27/07	11	3.7	7.1	7.0	SCHREIBERS MDW AM	3400	5/01/07	---	57.0e	59.3	53.7
GRIFFIN CR DIVIDE	5150	4/27/07	0	.0	2.2	4.9	SENTINEL BT SNOTEL	4920	5/01/07	0	.0	4.1	--
GROUSE CAMP SNOTEL	5380	5/01/07	38	8.0	20.7	11.1	SHEEP CANYON SNOTEL	4050	5/01/07	61	28.6	44.7	32.1
HAMILTON HILL CAN.	4550	4/30/07	13	6.6	2.9	10.6	SHERWIN SNOTEL	3200	5/01/07	---	.0	.0	3.1
HAND CREEK SNOTEL	5030	5/01/07	0	.0	1.7	6.8	SKALKAH SNOTEL	7260	5/01/07	39	15.9	23.1	25.5
HARTS PASS SNOTEL	6500	5/01/07	96	50.0	45.4	47.7	SKITWISH RIDGE	5110	5/02/07	30	15.0	28.8	25.5
HARTS PASS	6500	4/28/07	105	50.1	49.6	44.4	SKOOKUM CREEK SNOTEL	3920	5/01/07	20	12.9	28.6	14.0
HELL ROARING DIVIDE	5770	4/25/07	61	25.2	34.0	29.0	SLIDE ROCK MOUNTAIN	7100	4/29/07	29	10.6	15.6	15.5
HERRIG JUNCTION	4850	4/24/07	51	23.8	23.8	22.9	SOURDOUGH GUL SNOTEL	4000	5/01/07	0	.0	.0	--
HIGH RIDGE SNOTEL	4920	5/01/07	12	6.5	19.6	15.9	SPENCER MDW SNOTEL	3400	5/01/07	40	23.7	37.6	21.1
HOLBROOK	4530	4/26/07	0	.0	.0	1.2	SPIRIT LAKE SNOTEL	3100	5/01/07	0	.0	.0	.1
HOODOO BASIN SNOTEL	6050	5/01/07	77	33.9	48.7	45.7	SPOTTED BEAR MTN.	7000	4/26/07	0	.0	7.9	7.0
HUCKLEBERRY SNOTEL	2000	5/01/07	0	.0	.0	--	SPRUCE SPGS SNOTEL	5700	5/01/07	0	.0	11.1	--
HUMBOLDT GLCH SNOTEL	4250	5/01/07	---	.0	2.0	5.5	STAHL PEAK SNOTEL	6030	5/01/07	87	37.2	40.2	37.7
HURRICANE	4500	5/01/07	---	17.0	--	17.9	STAMPEDE PASS SNOTEL	3860	5/01/07	71	36.8	43.1	42.7
INTERGAARD	6450	4/29/07	8	2.3	3.2	6.1	STEMPLE PASS	6600	4/27/07	20	6.5	9.0	9.0
ISINTOK LAKE CAN.	5100	4/27/07	4	1.6	5.8	5.4	STEVENS PASS SNOTEL	4070	5/01/07	68	27.4	35.5	35.5
JUNE LAKE SNOTEL	3200	5/01/07	58	34.8	57.0	29.6	STORM LAKE	7780	5/01/07	34	12.4	15.5	14.3
KRAFT CREEK SNOTEL	4750	5/01/07	0	.0	.0	5.2	STRYKER BASIN	6180	4/24/07	73	29.5	32.9	32.0
LESTER CREEK	3100	4/28/07	34	15.4	24.2	16.6	SUMMERLAND RES CAN.	4200	4/27/07	7	2.8	4.1	5.0
LIGHTNING LAKE CAN.	3700	5/01/07	24	11.1	9.8	9.9	SUNSET SNOTEL	5540	5/01/07	---	12.1	16.3	28.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1971-00
SURPRISE LKS SNOTEL	4250	5/01/07	86	41.4	64.9	41.8
SWAMP CREEK SNOTEL	4000	5/01/07	4	3.3	4.1	4.6
TEN MILE LOWER	6600	4/30/07	5	1.6	4.6	4.5
TEN MILE MIDDLE	6800	4/30/07	18	5.9	12.1	11.2
THUNDER BASIN SNOTEL	4200	5/01/07	40	28.2	27.2	27.4
THUNDER BASIN	4200	5/01/07	---	28.2	17.8	21.2
THOMPSON CREEK	2500	4/26/07	0	.0	.0	--
TINKHAM CREEK SNOTEL	3000	5/01/07	55	23.7	27.5	20.0
TOUCHET SNOTEL	5530	5/01/07	14	8.2	27.7	26.2
TRINKUS LAKE	6100	4/26/07	91	41.5	46.9	40.8
TROUGH #2 SNOTEL	5310	5/01/07	0	.0	6.9	4.3
TROUT CREEK CAN.	5650	4/28/07	4	1.4	.0	3.7
TRUMAN CREEK	4060	5/01/07	0	.0	.0	.1
TUNNEL AVENUE	2450	5/01/07	13	7.1	10.3	12.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1971-00
TV MOUNTAIN	6800	4/26/07	39	13.9	21.5	17.1
TWELVEMILE SNOTEL	5600	5/01/07	0	.0	9.8	8.8
TWIN CAMP	4100	4/28/07	30	14.1	16.3	20.3
TWIN CREEKS	3580	4/26/07	0	.0	.0	1.7
TWIN LAKES SNOTEL	6400	5/01/07	59	30.5	43.4	38.5
UPPER HOLLAND LAKE	6200	4/26/07	59	26.6	34.4	33.5
UPPER WHEELER SNOTEL	4400	5/01/07	8	3.3	10.8	6.3
WARM SPRINGS SNOTEL	7800	5/01/07	60	23.0	23.6	23.7
WATSON LAKES AM	4500	5/01/07	---	62.0e	70.7	64.0
WATERHOLE SNOTEL	5000	5/01/07	88	42.2	41.0	36.4
WEASEL DIVIDE	5450	4/27/07	63	30.9	33.0	32.7
WELLS CREEK SNOTEL	4200	5/01/07	75	37.7	40.3	26.9
WHITE PASS ES SNOTEL	4500	5/01/07	32	16.5	22.7	21.4
WHITE ROCKS MTN CAN.	7200	4/29/07	42	18.7	25.2	21.0

NRCS Natural Resources
Conservation Service

May 1, 2007 - Snowpack, Precipitation and Reservoir Conditions at a Glance (Water Year = October 1, 2006 - Current Date)





Natural Resources Conservation Service
Washington State
Snow, Water and Climate Services

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Helpful Internet Addresses

NRCS Snow Survey and Climate Services Homepages

Washington:
<http://www.wa.nrcs.usda.gov/snow>

Oregon:
<http://www.or.nrcs.usda.gov/snow>

Idaho:
<http://www.id.nrcs.usda.gov/snow>

National Water and Climate Center (NWCC):
<http://www.wcc.nrcs.usda.gov>

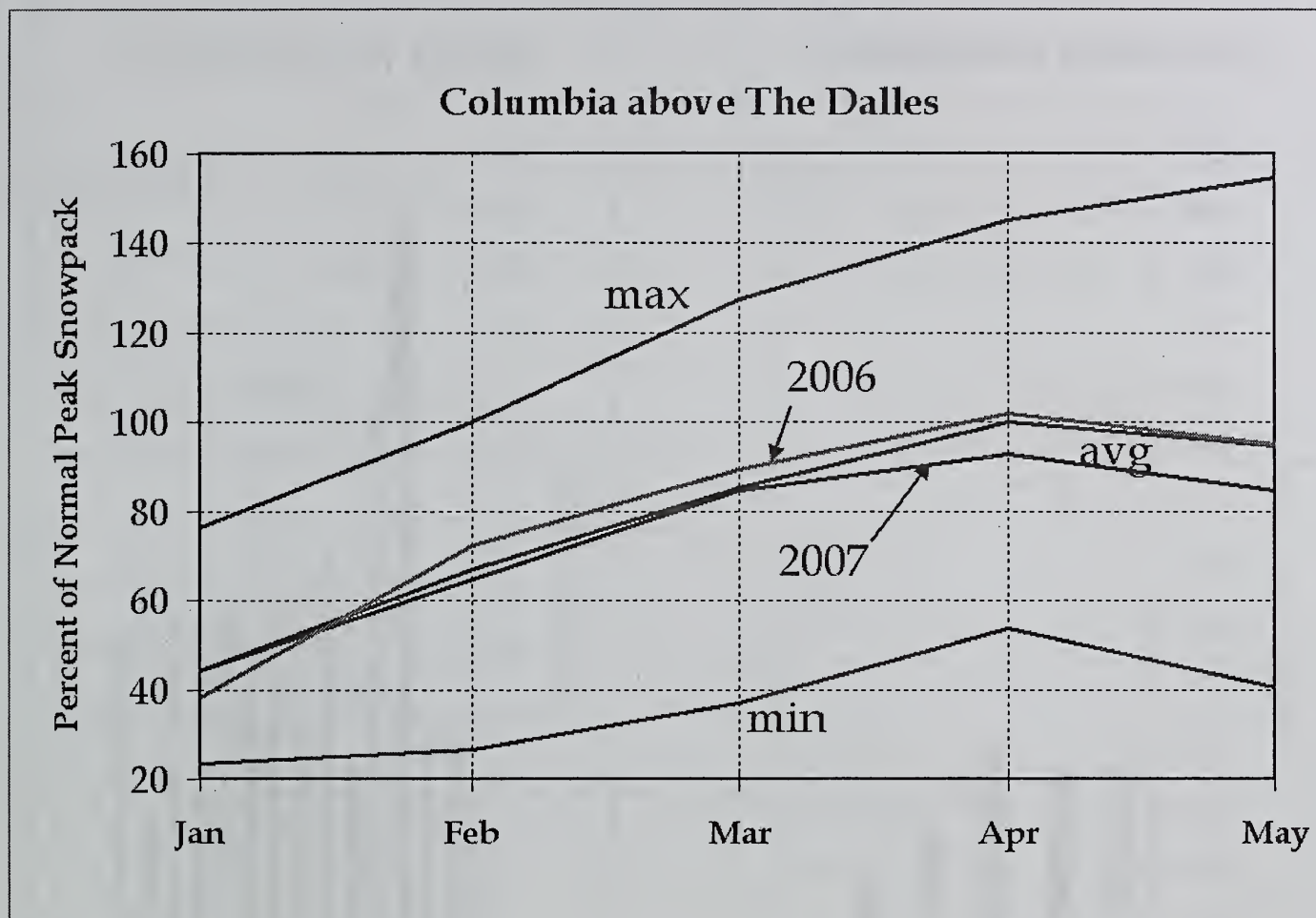
NWCC Anonymous FTP Server:
<ftp.wcc.nrcs.usda.gov>

USDA-NRCS Agency Homepages

Washington:
<http://www.wa.nrcs.usda.gov>

NRCS National:
<http://www.nrcs.usda.gov>

Columbia Basin Snowpack Summary



May 2, 2007

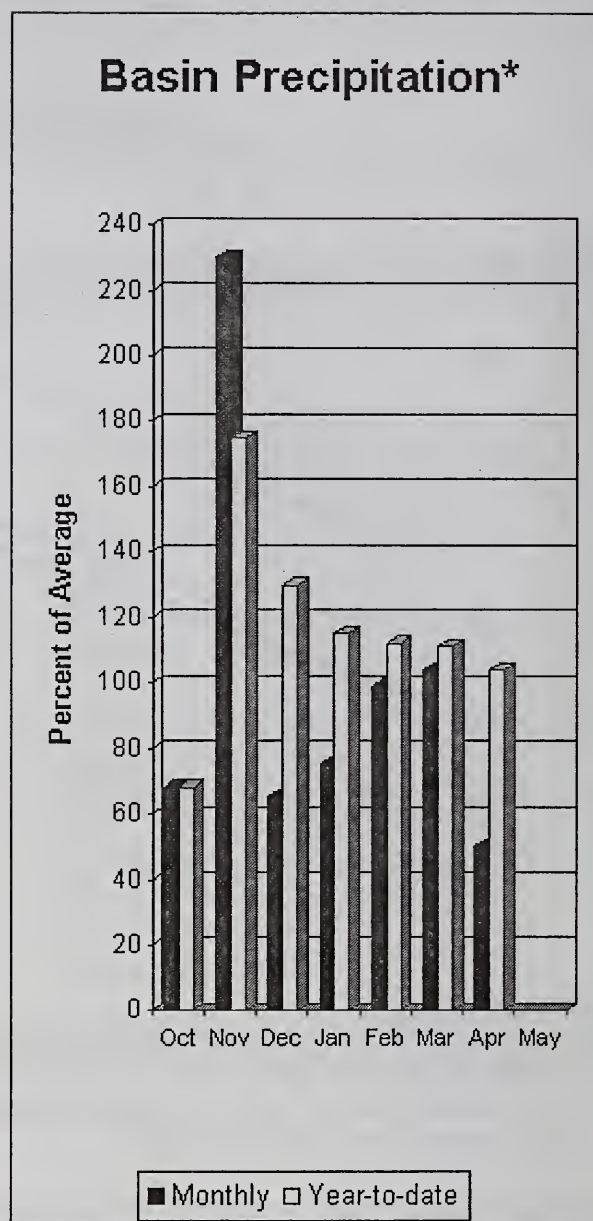
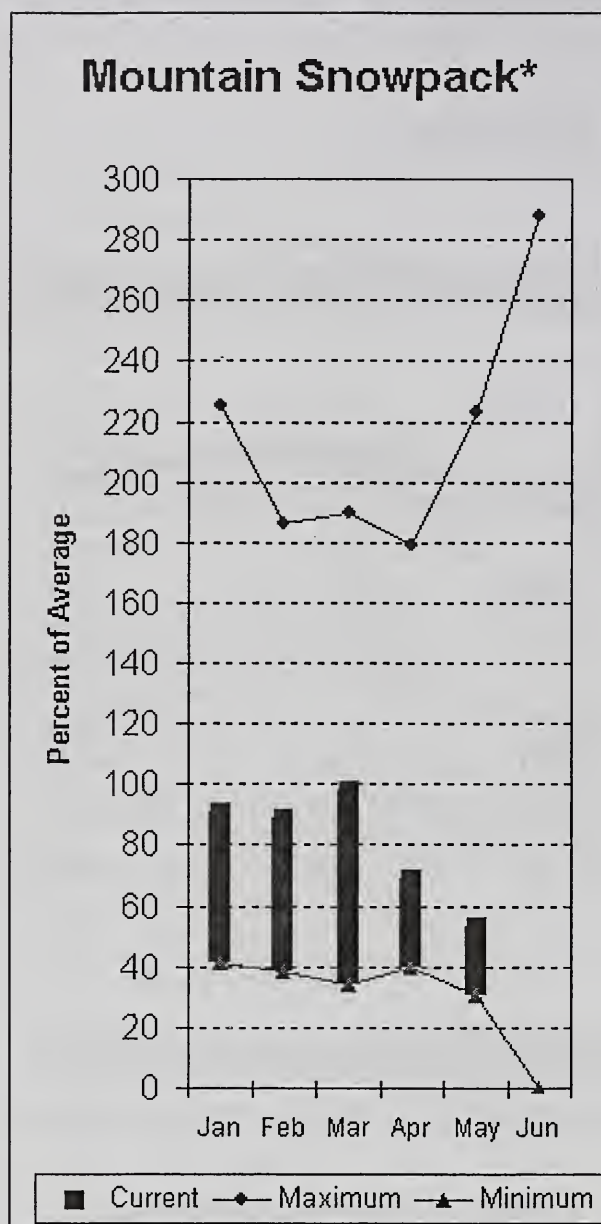
The Columbia Basin snowpack charts are produced, using only automated data. These data are telemetered via remote collection sites in Canada and the United States. The data are provisional, until they are officially released by the responsible data collection agency.

The Canadian snow pack continues to be a bright spot this year. It continues to accumulate...up 3% from last month. It now stands at 127% of average. The Kootenai (the Canadians spell it Kootenay) snow pack (again, thanks to the Canadian snow fields) increased 2% from last month, to 104% of average. But the good news stops at the border! The snow pack in the United States is dismal. The warm temperatures have ripened the snow pack and it is disappearing. The North Cascades snow pack is holding on valiantly at about normal, but everywhere else, it is in free fall. The Yakima snow pack is now at 82%, Snake - 46%, Boise - 42%, Salmon - 53%, clearwater and Deschutes - 69%, John Day - 18%!

Overall, the Columbia Basin snow pack decreased from 93% of average to 89%. This is 11% lower than last year. The snow pack is at 85% of the average peak accumulation, compared to 95% last year. The snow pack above Castlegar has increased from 115% on April 1 to 118% currently. It was only 91% last year. The snow pack above Grand Coulee is at 103%, the same as last month, but 10% higher than last year. The snow pack in the Snake River Basin above Ice Harbor is at 55% of average, compared to 68% last month and 113% last year.

The next week to ten days look to be cooler and wetter than normal over the Columbia Basin. Let's hope so. And...GO CANADA!

Spokane River Basin



*Based on selected stations

The May 1 forecasts for summer runoff within the Spokane River Basin are 73% of average near Post Falls and 75% at Long Lake. The Chamokane River near Long Lake forecasted to have 77% of average flows for the May-August period. The forecast is based on a basin snowpack that is 60% of average and precipitation that is 104% of average for the water year. Precipitation for April was below normal at 50% of average. Streamflow on the Spokane River at Long Lake was 86% of average for April. May 1 storage in Coeur d'Alene Lake was 168,000 acre feet, 67% of average and 70% of capacity. Snowpack at Quartz Peak SNOTEL site dropped to 29% of average with 4.3 inches of water content. Average temperatures in the Spokane basin were 1 degree above normal for April and for the water year.

For more information contact your local Natural Resources Conservation Service office.

Spokane River Basin

SPOKANE RIVER BASIN Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SPOKANE near Post Falls (2)	MAY-SEP	890	1130	1300	73	1470	1710	1770
	MAY-JUL	840	1070	1230	74	1390	1620	1670
SPOKANE at Long Lake (2)	MAY-JUL	980	1250	1430	75	1610	1880	1910
	MAY-SEP	1120	1400	1590	75	1780	2060	2130
CHAMOKANE CREEK near Long Lake	MAY-AUG	4.4	6.4	7.8	77	9.4	12.1	10.2

SPOKANE RIVER BASIN Reservoir Storage (1000 AF) - End of April

SPOKANE RIVER BASIN Watershed Snowpack Analysis - May 1, 2007

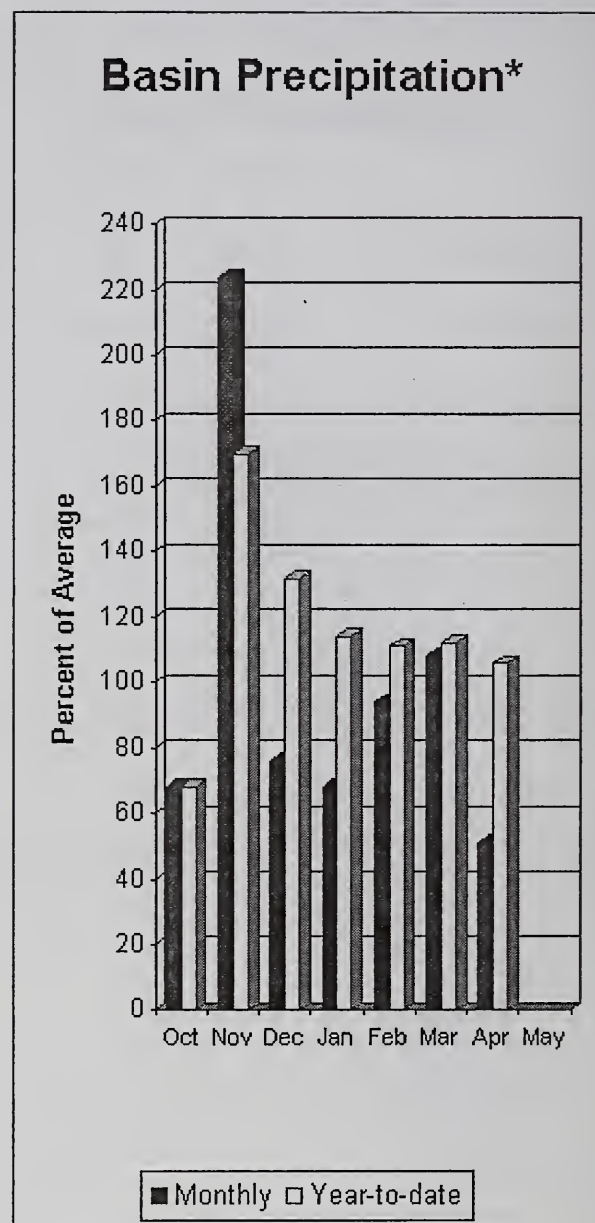
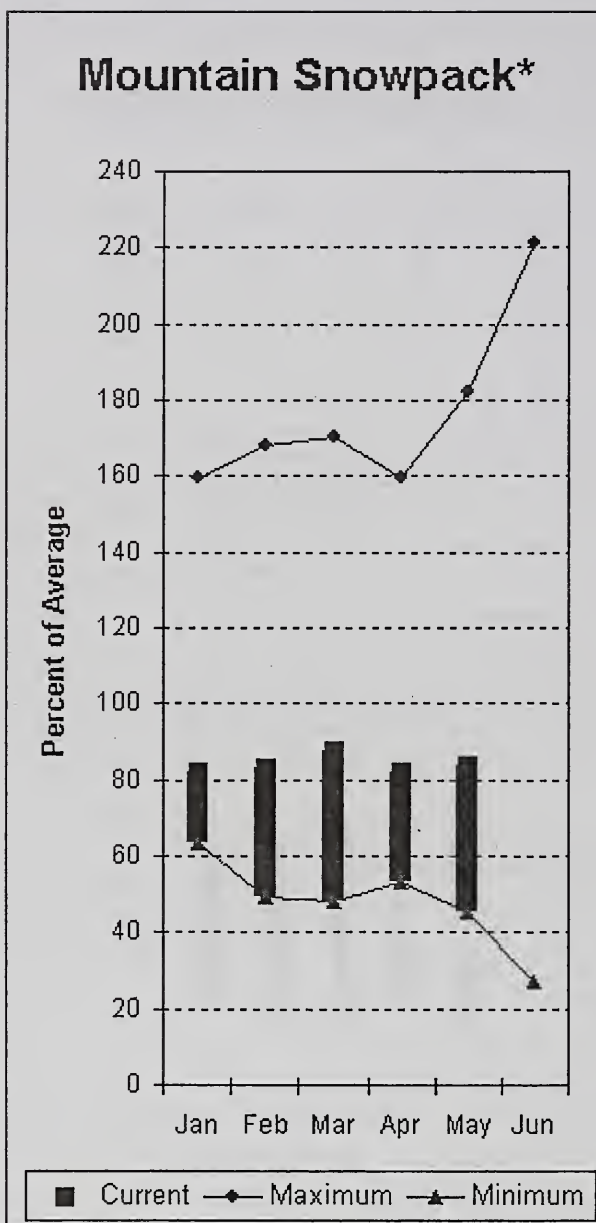
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
COEUR D'ALENE	238.5	167.9	219.5	249.7	SPOKANE RIVER	11	67	60
					NEWMAN LAKE	1	18	29

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Colville - Pend Oreille River Basins



*Based on selected stations

The May – September average forecast for the Kettle River streamflow is 93%, Colville at Kettle Falls is 74% and Priest River near the town of Priest River is 87%. April streamflow was 102% of average on the Pend Oreille River, 116% on the Columbia at the International Boundary and 108% on the Kettle River. May 1 snow cover was 71% of average in the Pend Oreille Basin River Basin and 100% in the Kettle River Basin. Bunchgrass Meadows SNOTEL site had 17.3 inches of snow water on the snow pillow. Normally Bunchgrass would have 28.6 inches on May 1. Precipitation during April was 51% of average, bringing the year-to-date precipitation to 106% of average. Reservoir storage in the basin, including Lake Pend Oreille and Priest Lake was 102% of normal. Average temperatures were 1 degree above normal for April and for the water year.

For more information contact your local Natural Resources Conservation Service office.

Colville - Pend Oreille River Basins

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<===== Drier ===== Future Conditions ===== Wetter =====>						30-Yr Avg. (1000AF)
		===== Chance Of Exceeding * =====						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
PEND OREILLE Lake Inflow (2)	MAY-JUL	7420	8320	8930	84	9540	10400	10600
	MAY-SEP	8290	9290	9970	85	10600	11600	11800
PRIEST near Priest River (1,2)	MAY-JUL	440	495	535	87	575	640	615
	MAY-SEP	480	540	585	87	630	705	670
PEND OREILLE bl Box Canyon (2)	MAY-JUL	7270	8390	9150	86	9910	11000	10700
	MAY-SEP	8170	9320	10100	85	10900	12000	11900
COLVILLE at Kettle Falls	MAY-SEP	37	54	68	74	83	108	92
	MAY-JUL	32	46	58	73	71	92	79
KETTLE near Laurier	MAY-SEP	1210	1400	1530	93	1660	1850	1640
	MAY-JUL	1140	1310	1430	93	1550	1720	1540
COLUMBIA at Birchbank (1,2)	MAY-JUL	30400	32700	33700	107	34700	37000	31600
	MAY-SEP	38700	41600	42900	107	44200	47100	40200
COLUMBIA at Grand Coulee Dm (1,2)	MAY-SEP	51100	55300	57200	101	59100	63300	56700
	MAY-JUL	41700	45100	46700	100	48300	51700	46600

COLVILLE - PEND OREILLE RIVER BASINS Reservoir Storage (1000 AF) - End of April

COLVILLE - PEND OREILLE RIVER BASINS Watershed Snowpack Analysis - May 1, 2007

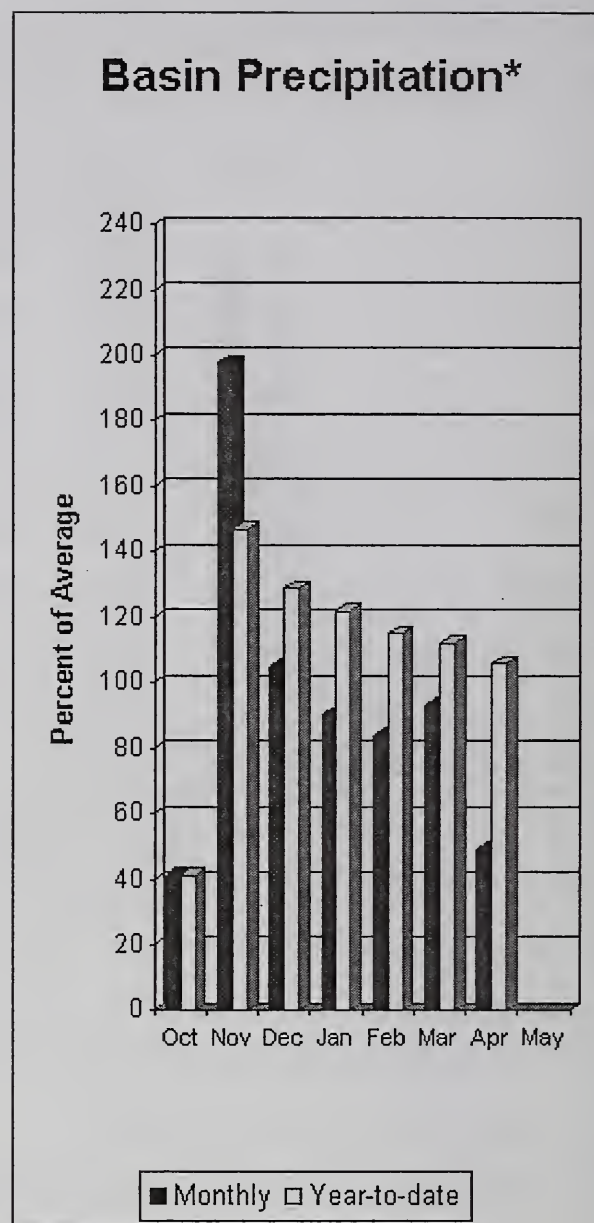
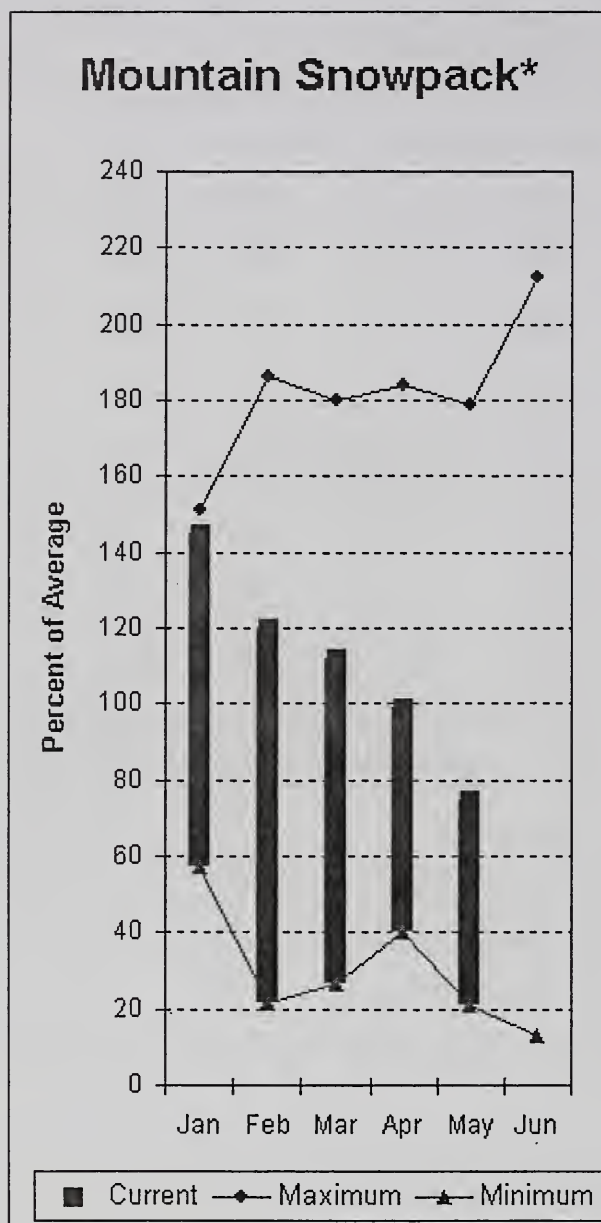
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ROOSEVELT		NO REPORT			COLVILLE RIVER	0	0	0
PEND OREILLE	1561.3	938.1	946.2	916.7	PEND OREILLE RIVER	10	64	64
PRIEST LAKE	119.3	100.1	107.4	102.5	KETTLE RIVER	2	85	100

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

Okanogan - Methow River Basins



*Based on selected stations

Summer runoff average forecast for the Okanogan River is 98%, Similkameen River is 105%, Methow River is 103% and Salmon Creek is 49%. May 1 snow cover on the Okanogan was 88% of average, Omak Creek was 60% and the Methow was 96%. April precipitation in the Okanogan-Methow was 49% of average, with precipitation for the water year at 106% of average. April streamflow for the Methow River was 207% of average, 197% for the Okanogan River and 244% for the Similkameen. Snow-water content at Salmon Meadows SNOTEL was melted by May 1. Average for this site is 3.9 inches on May 1. Combined storage in the Conconully Reservoirs was 22,000-acre feet, which is 93% of capacity and 115% of the May 1 average. Temperatures were near normal for April and for the water year.

For more information contact your local Natural Resources Conservation Service office.

Okanogan - Methow River Basins

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<===== Drier ===== Future Conditions ===== Wetter =====>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SIMILKAMEEN near Nighthawk (1)	MAY-JUL	975	1160	1280	105	1400	1590	1220
	MAY-SEP	1070	1260	1390	105	1520	1710	1320
OKANOGAN near Tonasket (1)	MAY-JUL	820	1140	1360	97	1580	1900	1400
	MAY-SEP	945	1310	1550	98	1790	2150	1590
OKANOGAN at Malott (1)	MAY-JUL	895	1240	1400	97	1560	1910	1449
	MAY-SEP	1050	1430	1600	98	1770	2150	1641
Salmon Creek nr Conconully	MAY-JUL	3.1	5.8	8.1	49	10.8	15.5	16.6
	MAY-SEP	3.2	6.1	8.6	49	11.6	16.7	17.6
TOATS COULEE CREEK nr Loomis	MAY-JUL	9.6	15.8	20	74	24	30	27
	MAY-SEP	12.1	18.0	22	79	26	32	28
Beaver Creek blw SF nr Twisp	MAY-SEP	2.4	4.7	6.3	56	7.9	10.2	11.2
	MAY-JUL	1.8	4.1	5.7	56	7.3	9.6	10.1
METHOW RIVER near Pateros	MAY-SEP	695	815	905	103	1000	1140	880
	MAY-JUL	635	750	835	103	925	1060	810

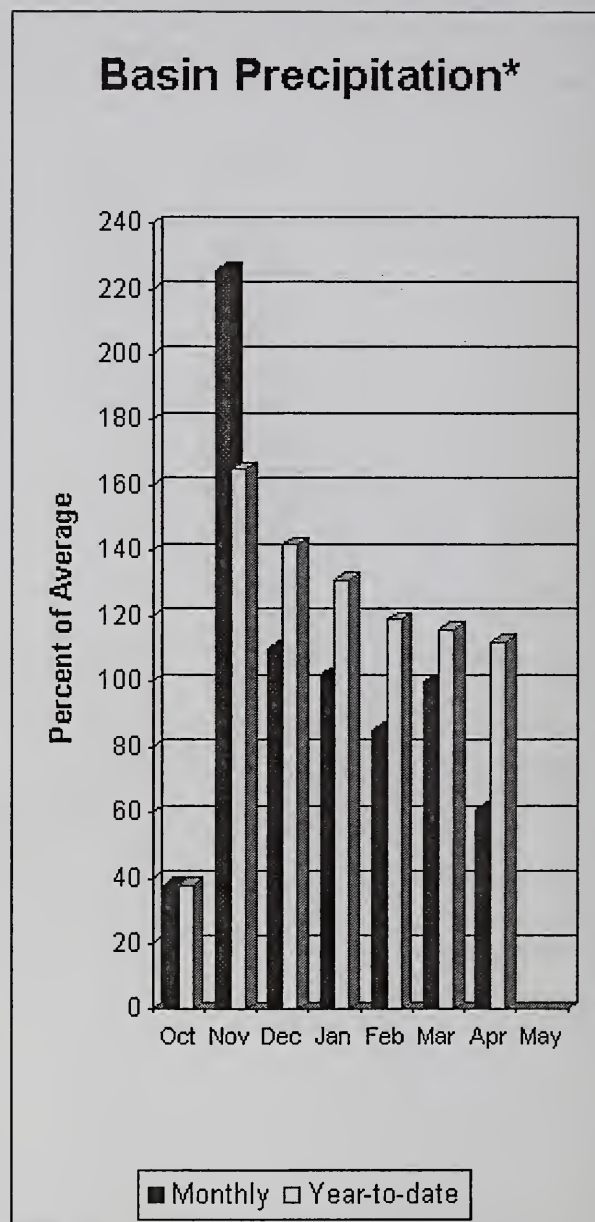
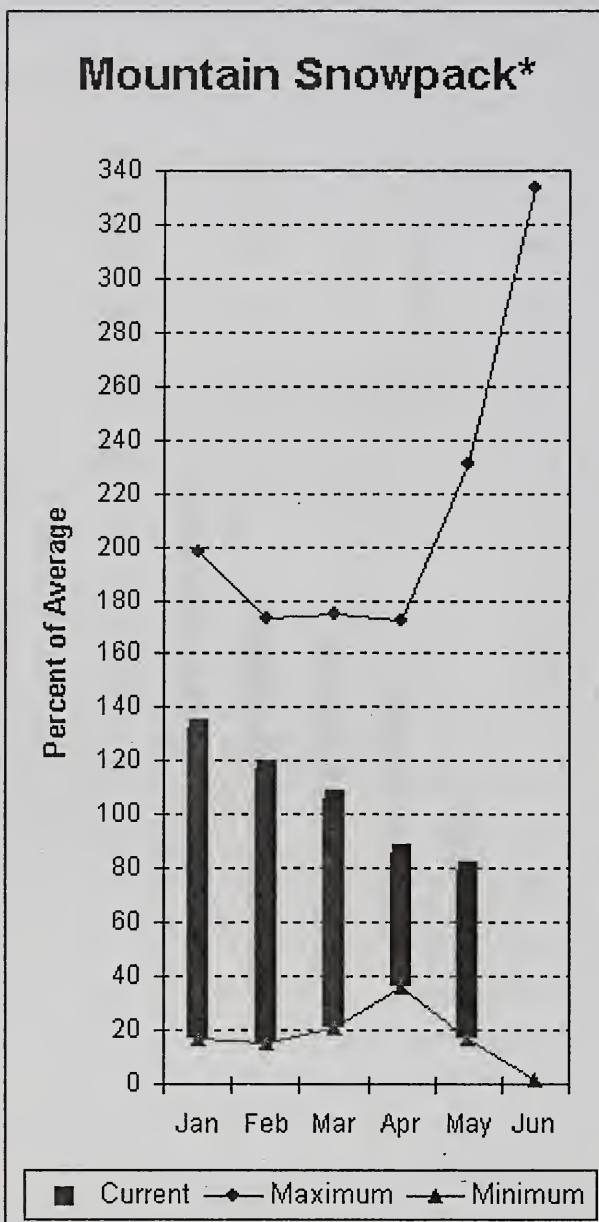
OKANOGAN - METHOW RIVER BASINS Reservoir Storage (1000 AF) - End of April					OKANOGAN - METHOW RIVER BASINS Watershed Snowpack Analysis - May 1, 2007			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
SALMON LAKE	10.5	9.6	8.2	8.9	OKANOGAN RIVER	15	83	88
CONCONULLY RESERVOIR	13.0	12.3	8.2	10.1	OMAK CREEK	1	29	60
					SANPOIL RIVER	0	0	0
					SIMILKAMEEN RIVER	4	142	91
					TOATS COULEE CREEK	0	0	0
					CONCONULLY LAKE	1	0	0
					METHOW RIVER	5	97	96

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural volume - actual volume may be affected by upstream water management.

Wenatchee - Chelan River Basins



*Based on selected stations

Precipitation during April was 61% of average in the basin and 112% for the year-to-date. Runoff for Entiat River is forecast to be 102% of average for the summer. The May-September average forecast for Chelan River is 103%, Wenatchee River at Plain is 97% and Stehekin is 103%. Icicle, Stemilt and Squilchuck creeks are all forecasted to have near average flows as well. April average streamflows on the Chelan River were 151% and on the Wenatchee River 124%. May 1 snowpack in the Wenatchee River Basin was 76% of average; the Chelan, 95%; the Entiat, 76% and Stemilt Creek, 52%. Reservoir storage in Lake Chelan was 427,000-acre feet, 161% of May 1 average and 63% of capacity. Lyman Lake SNOTEL had the most snow water with 69.4 inches of water. This site would normally have 67.2 inches on May 1. Temperatures were near normal for April and for the water year.

For more information contact your local Natural Resources Conservation Service office.

Wenatchee - Chelan River Basins

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		===== Chance Of Exceeding * =====						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
CHELAN RIVER near Chelan	MAY-SEP	945	1020	1080	103	1140	1220	1050
	MAY-JUL	800	875	930	102	985	1070	910
STEHEKIN near STEHEKIN	MAY-SEP	670	725	765	103	805	865	745
	MAY-JUL	550	605	640	103	680	735	620
ENTIAT RIVER nr Ardenvoir	MAY-SEP	191	210	220	102	230	250	215
	MAY-JUL	172	188	199	102	210	225	195
WENATCHEE at Plain	MAY-SEP	830	925	990	97	1060	1170	1020
	MAY-JUL	735	820	880	97	945	1040	905
WENATCHEE R. at Peshastin	MAY-SEP	1150	1280	1370	97	1460	1610	1410
	MAY-JUL	1010	1130	1210	97	1300	1430	1250
ICICLE CREEK near Leavenworth	MAY-SEP	210	240	260	87	280	315	300
	MAY-JUL	194	220	240	89	260	290	270
COLUMBIA R. bl Rock Island Dam (2)	MAY-SEP	57700	61300	63700	103	66100	69700	61600
	MAY-JUL	46600	50100	52500	103	54900	58400	51100

WENATCHEE - CHELAN RIVER BASINS Reservoir Storage (1000 AF) - End of April

WENATCHEE - CHELAN RIVER BASINS Watershed Snowpack Analysis - May 1, 2007

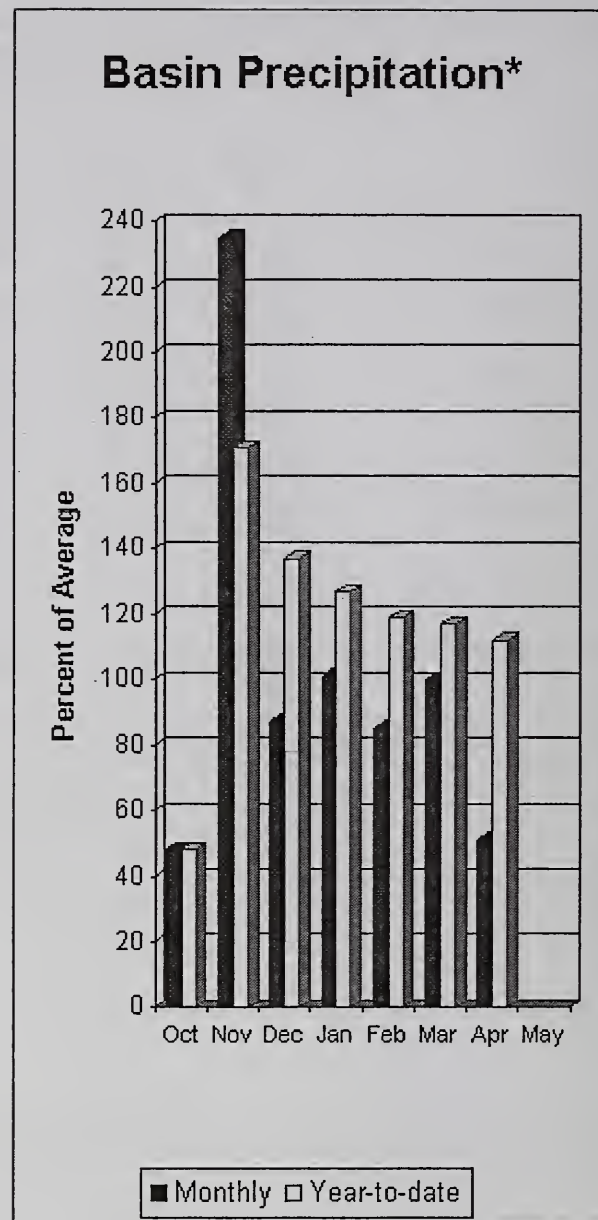
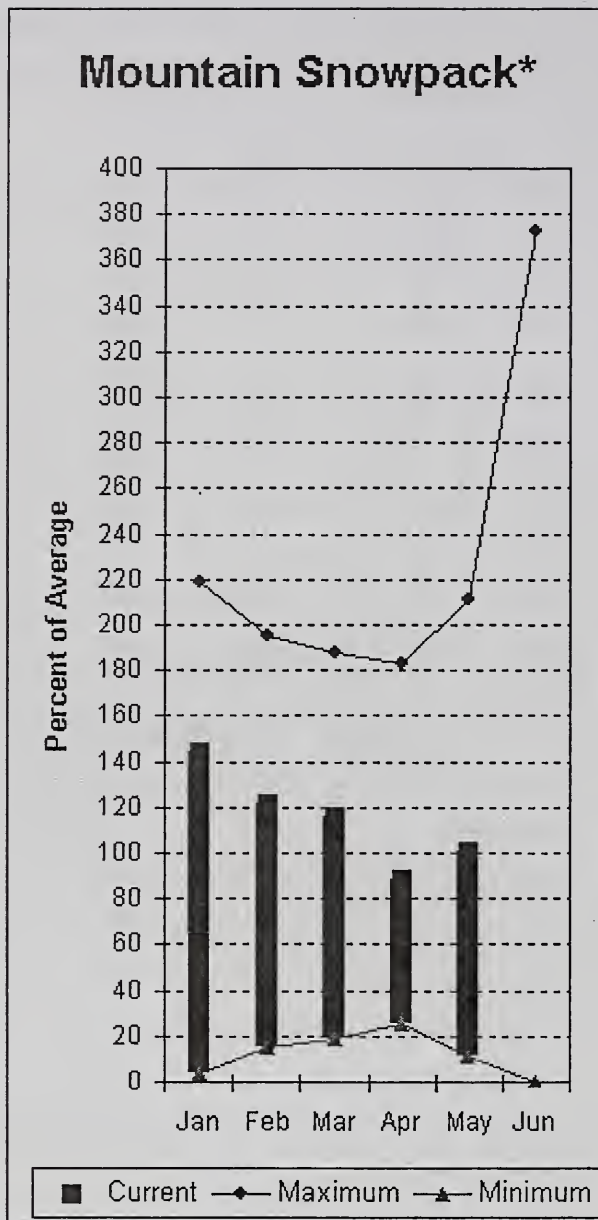
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CHELAN LAKE	676.1	426.9	146.2	265.6	CHELAN LAKE BASIN	5	94	95
					ENTIAT RIVER	1	39	76
					WENATCHEE RIVER	6	77	80
					STEMILT CREEK	1	31	52
					COLOCKUM CREEK	1	0	0

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper Yakima River Basin



*Based on selected stations

May 1 reservoir storage for the Upper Yakima reservoirs was 782,000-acre feet, 126% of average. Forecasts for the Yakima River at Cle Elum are 96% of average and the Teanaway River near Cle Elum is at 78%. Lake inflows are all forecasted to be near average this summer as well. April streamflows within the basin were Yakima near Cle Elum at 99% and Cle Elum River near Roslyn at 100%. May 1 snowpack was 76% based upon 8 snow course and SNOTEL readings within the Upper Yakima Basin. Precipitation was 51% of average for April and 112% year-to-date for water. Volume forecasts for the Yakima Basin are for natural flow. As such, they may differ from the U.S. Bureau of Reclamation's forecast for the total water supply available, which includes irrigation return flow.

For more information contact your local Natural Resources Conservation Service office.

Upper Yakima River Basin

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<===== Drier ===== Future Conditions ===== Wetter =====>						
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
KEECHELUS LAKE INFLOW	MAY-JUL	74	84	91	98	98	110	93
	MAY-SEP	82	93	101	97	109	122	104
KACHESS LAKE INFLOW	MAY-JUL	69	78	84	100	91	101	84
	MAY-SEP	76	85	92	100	99	110	92
CLE ELUM LAKE INFLOW	MAY-JUL	245	285	310	93	340	380	335
	MAY-SEP	285	325	350	93	380	420	375
YAKIMA at Cle Elum	MAY-JUL	495	555	600	96	645	715	625
	MAY-SEP	560	630	680	96	730	810	710
TEANAWAY near Cle Elum	MAY-JUL	41	55	66	78	78	98	85
	MAY-SEP	43	58	69	78	81	101	88

UPPER YAKIMA RIVER BASIN Reservoir Storage (1000 AF) - End of April

UPPER YAKIMA RIVER BASIN Watershed Snowpack Analysis - May 1, 2007

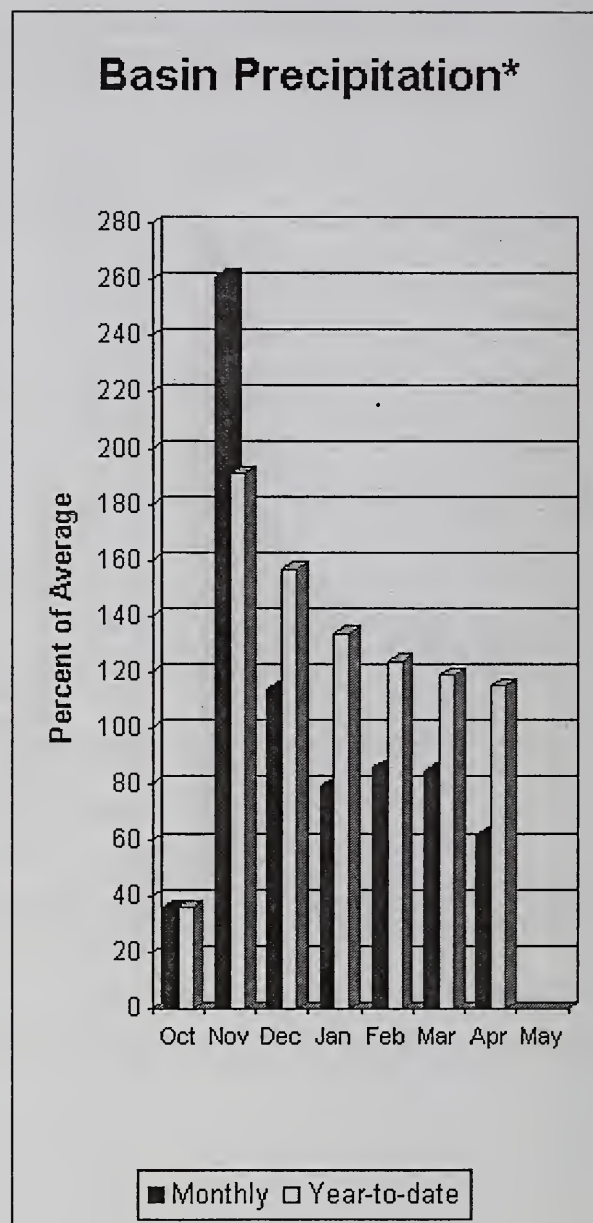
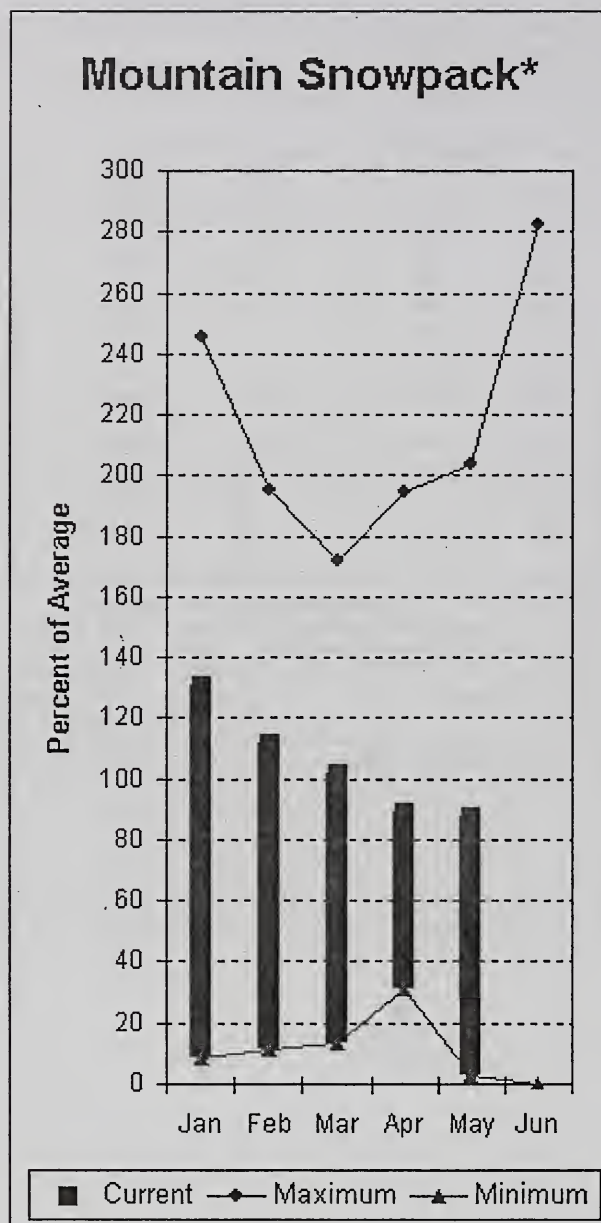
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
KEECHELUS	157.8	145.5	92.1	125.6	UPPER YAKIMA RIVER	6	71	79
KACHESS	239.0	228.4	116.4	188.3				
CLE ELUM	436.9	407.8	180.6	307.0				

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Lower Yakima River Basin



*Based on selected stations

April average streamflows within the basin were: Yakima River near Parker, 106% and the Naches River near Naches, 110%. May 1 reservoir storage for Bumping and Rimrock reservoirs was 197,000-acre feet, 116% of average. Forecast average flows for Yakima River near Parker are 93%; American River near Nile, 98%; Ahtanum Creek, 60%; and Klickitat River near Glenwood, 67%. May 1 snowpack was 77% based upon 7 snow course and SNOTEL readings within the Lower Yakima Basin and Ahtanum Creek reported in at 58% of average. Precipitation was 62% of average for April and 115% year-to-date for water. Temperatures were near normal for April and near average for the water year. Volume forecasts for Yakima Basin are for natural flow. As such, they may differ from the U.S. Bureau of Reclamation's forecast for the total water supply available, which includes irrigation return flow.

For more information contact your local Natural Resources Conservation Service office.

Lower Yakima River Basin

Streamflow Forecasts - May 1, 2007

		<<===== Drier ===== Future Conditions ===== Wetter =====>>						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
=====								
BUMPING LAKE INFLOW	MAY-SEP	95	107	115	100	124	137	115
	MAY-JUL	86	97	104	101	112	124	103
AMERICAN RIVER near Nile	MAY-SEP	72	87	98	98	110	128	100
	MAY-JUL	64	78	89	99	100	118	90
RIMROCK LAKE INFLOW	MAY-SEP	169	186	197	96	210	225	205
	MAY-JUL	134	148	158	96	168	184	165
NACHES near Naches	MAY-SEP	520	580	625	99	670	735	630
	MAY-JUL	470	520	560	98	600	660	570
AHTANUM CREEK at Union Gap	MAY-SEP	9.7	12.1	13.9	60	15.8	18.8	23
	MAY-JUL	7.9	10.2	11.9	57	13.7	16.7	21
YAKIMA near Parker	MAY-SEP	1230	1350	1440	93	1530	1670	1550
	MAY-JUL	1060	1170	1250	92	1330	1450	1360
KLICKITAT near Glenwood	MAY-JUN	52	60	66	65	72	80	102
	MAY-SEP	71	82	90	67	98	109	135

LOWER YAKIMA RIVER BASIN Reservoir Storage (1000 AF) - End of April

LOWER YAKIMA RIVER BASIN Watershed Snowpack Analysis - May 1, 2007

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BUMPING LAKE	33.7	19.9	24.1	19.6				
RIMROCK	198.0	176.2	161.8	149.4				

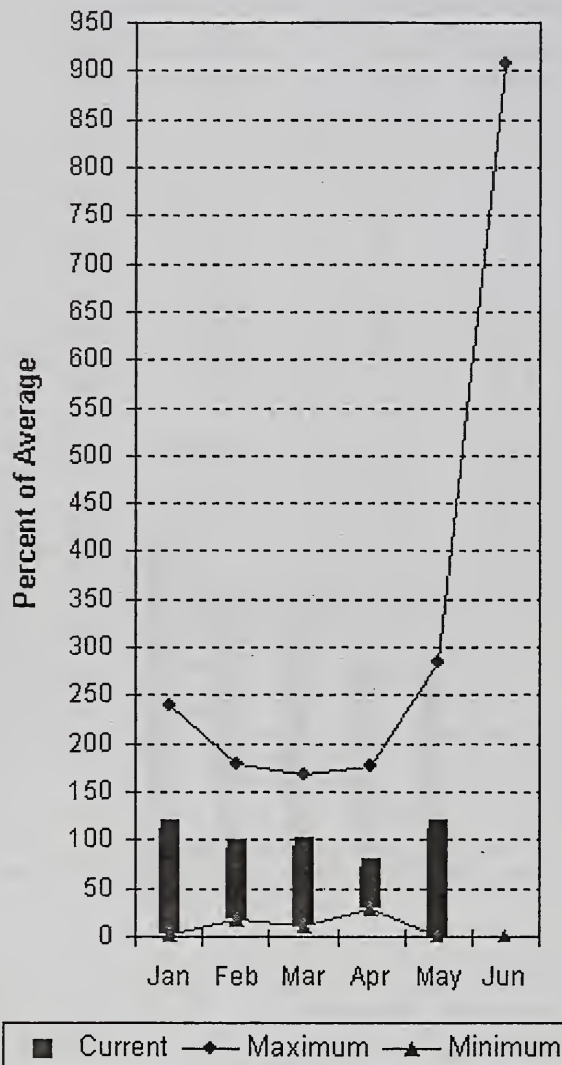
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

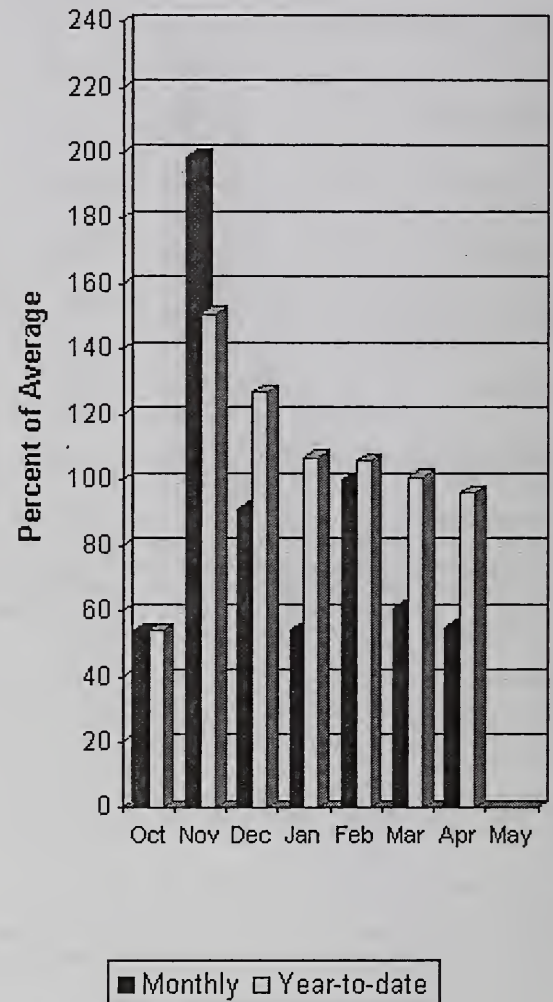
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Walla Walla River Basin

Mountain Snowpack*



Basin Precipitation*



*Based on selected stations

April precipitation was 55% of average, dropping the year-to-date precipitation to slightly below normal at 96%. Snowpack in the basin was 35% of average. Streamflow forecasts are 88 % of average for Mill Creek at Kooskooskie and 88% for the SF Walla Walla near Milton-Freewater. April streamflow was 99% of average for the Walla Walla River. Average temperatures were 1 degree above normal for April and near average for the water year.

For more information contact your local Natural Resources Conservation Service office.

Walla Walla River Basin

Streamflow Forecasts - May 1, 2007

		<----- Drier ----- Future Conditions ----- Wetter ----->						
Forecast Point	Forecast Period	=====		Chance Of Exceeding *		=====		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SF WALLA WALLA near Milton-Freewater	MAY-JUL	27	30	33	87	36	40	38
	MAY-SEP	38	42	45	88	48	53	51
MILL CREEK at Kooskooskie	MAY-JUL	8.9	11.0	12.6	86	14.3	16.9	14.7
	MAY-SEP	12.0	14.4	16.2	88	18.1	21	18.4

WALLA WALLA RIVER BASIN Reservoir Storage (1000 AF) - End of April

WALLA WALLA RIVER BASIN Watershed Snowpack Analysis - May 1, 2007

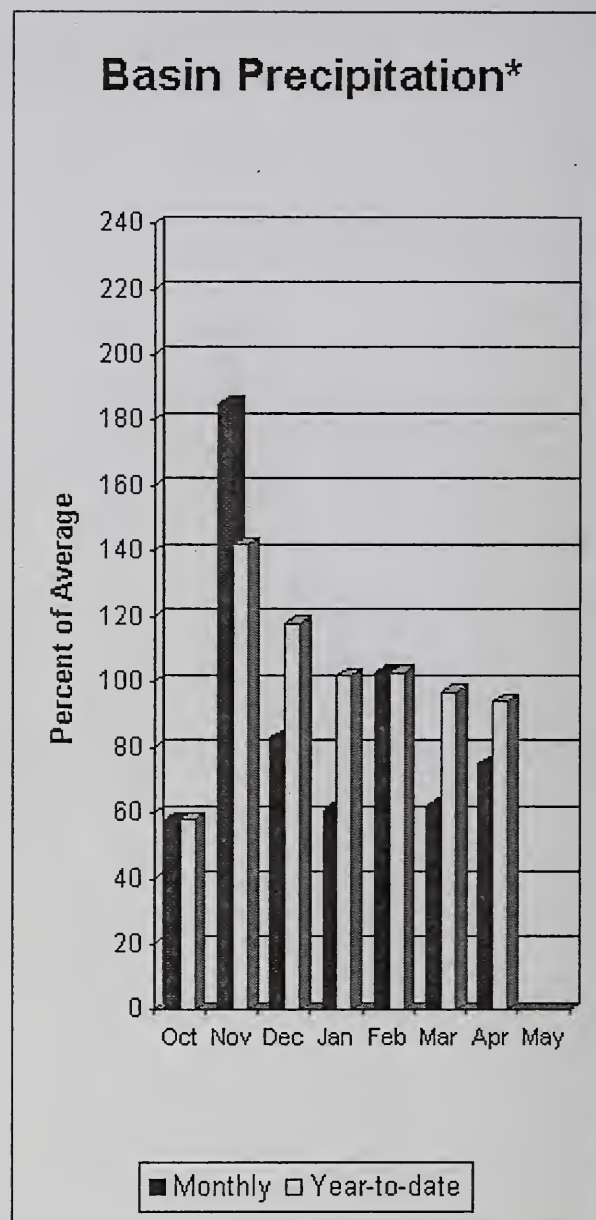
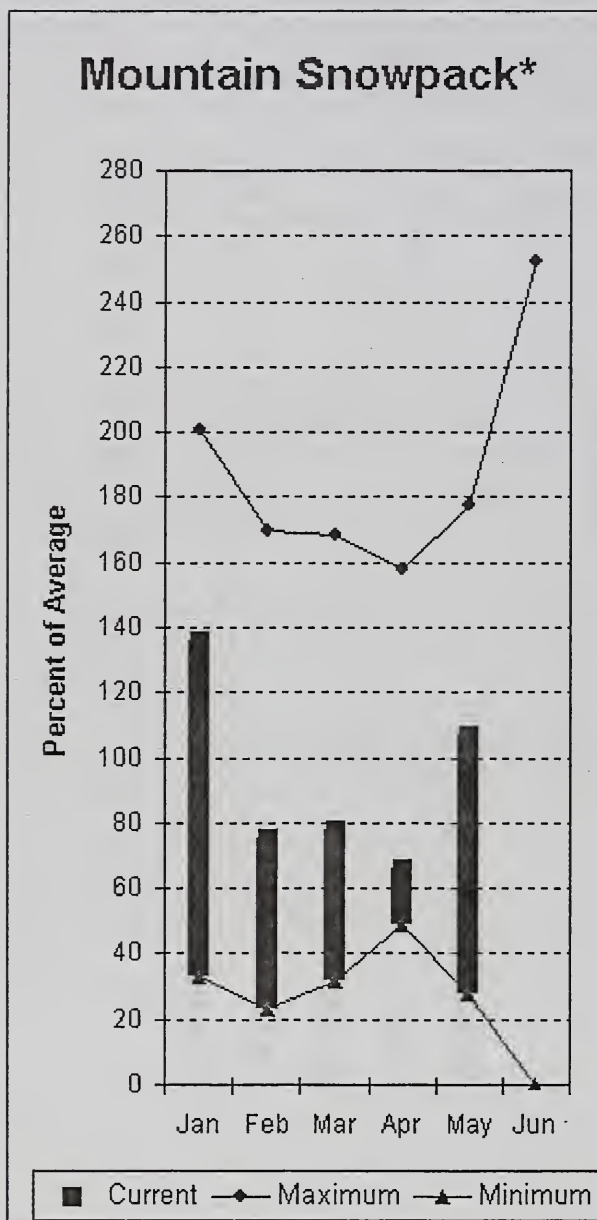
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					WALLA WALLA RIVER	2	31	35

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Lower Snake River Basin



*Based on selected stations

The May - September forecast is for 77% for Clearwater River at Spalding. The Snake and Grande Ronde rivers can both expect summer flows to be about 66% of normal. April precipitation was 75% of average, bringing the year-to-date precipitation to 94% of average. May 1 snowpack readings averaged only 60% of normal. April streamflow was 66% of average for Snake River below Lower Granite Dam and 61% for Grande Ronde River near Troy. Average temperatures were 2 degrees above normal for April and 1 degree above normal for the water year.

For more information contact your local Natural Resources Conservation Service office.

Lower Snake River Basin

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<----- Drier ----- Future Conditions ----- Wetter ----->						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GRANDE RONDE at Troy (1)	MAY-JUL	355	525	600	66	675	845	910
	MAY-SEP	505	600	665	66	735	845	1010
CLEARWATER at Spalding (1,2)	MAY-JUL	3350	4090	4430	77	4770	5510	5770
	MAY-SEP	3620	4420	4780	77	5140	5940	6190
SNAKE blw Lower Granite Dam (1,2)	MAY-JUL	7710	9970	11000	66	12000	14300	16700
	MAY-SEP	9000	11600	12800	66	14000	16600	19300

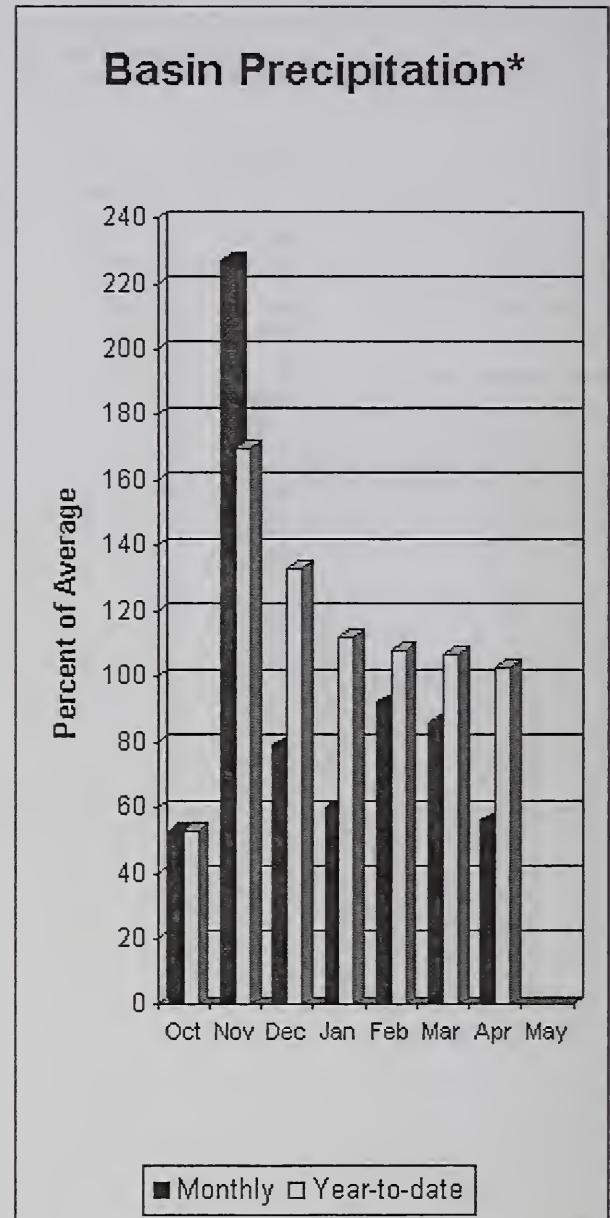
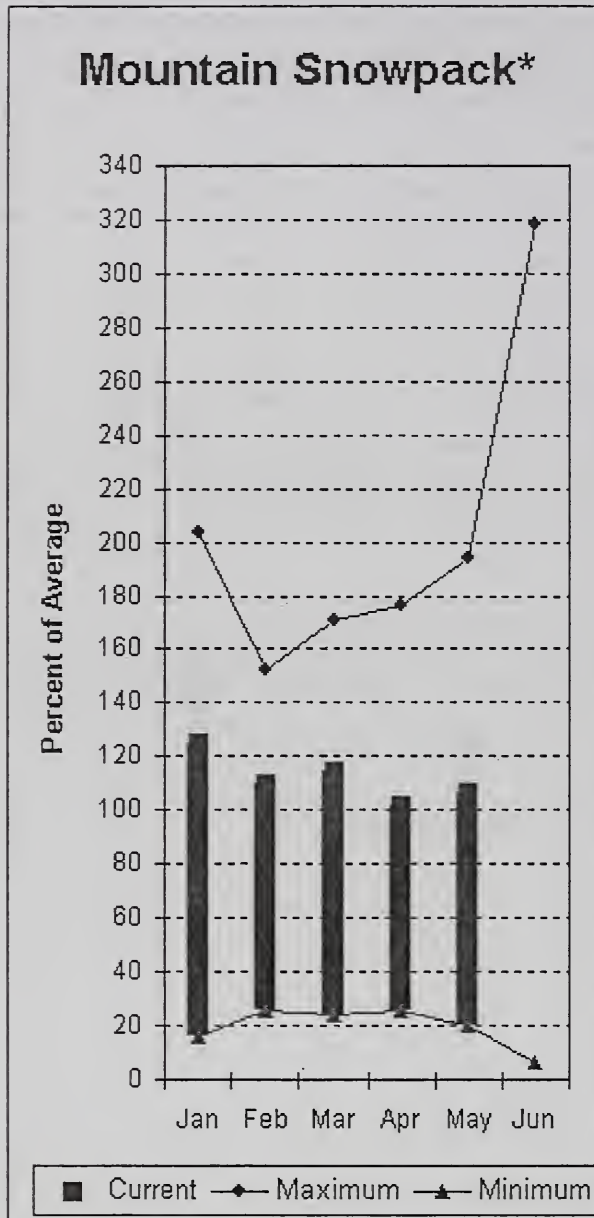
LOWER SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of April					LOWER SNAKE RIVER BASIN Watershed Snowpack Analysis - May 1, 2007			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DWORSHAK	3468.0	3005.0	2447.3	2421.3	LOWER SNAKE, GRANDE RONDE	10	57	60

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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Cowlitz - Lewis River Basins



*Based on selected stations

Forecasts for May – September streamflows within the basin are Lewis River at Ariel, 99% and Cowlitz River at Castle Rock, 91% of average. The Columbia at The Dalles is forecasted to have 91% of average flows this summer. April average streamflow for Cowlitz River was 93% and 75% for Lewis River. The Columbia River at The Dalles was 90% of average. April precipitation was 56% of average and the water-year average was 103%. May 1 snow cover for Cowlitz River was 96%, and Lewis River was 104% of average. Storage for the four major reservoirs in the basin totaled 2,777,000 acre-feet on May 1. Average temperatures were 1 degree above normal during April and 1 degree above normal for the water year.

For more information contact your local Natural Resources Conservation Service office.

Cowlitz - Lewis River Basins

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
LEWIS at Ariel (2)	MAY-JUL	546	620	670	100	720	794	667
	MAY-SEP	673	749	800	99	851	927	812
COWLITZ R. bl Mayfield Dam (2)	MAY-SEP	620	1084	1400	95	1716	2180	1478
	MAY-JUL	534	924	1190	95	1456	1846	1247
COWLITZ R. at Castle Rock (2)	MAY-SEP	793	1387	1790	91	2193	2787	1972
	MAY-JUL	640	1134	1470	90	1806	2300	1629
KLICKITAT near Glenwood	MAY-JUN	52	60	66	65	72	80	102
	MAY-SEP	71	82	90	67	98	109	135
COLUMBIA R. at The Dalles (2)	MAY-SEP	65100	72000	76600	91	81200	88100	84500
	MAY-JUL	54100	59800	63700	90	67600	73300	70500

COWLITZ - LEWIS RIVER BASINS Reservoir Storage (1000 AF) - End of April

COWLITZ - LEWIS RIVER BASINS Watershed Snowpack Analysis - May 1, 2007

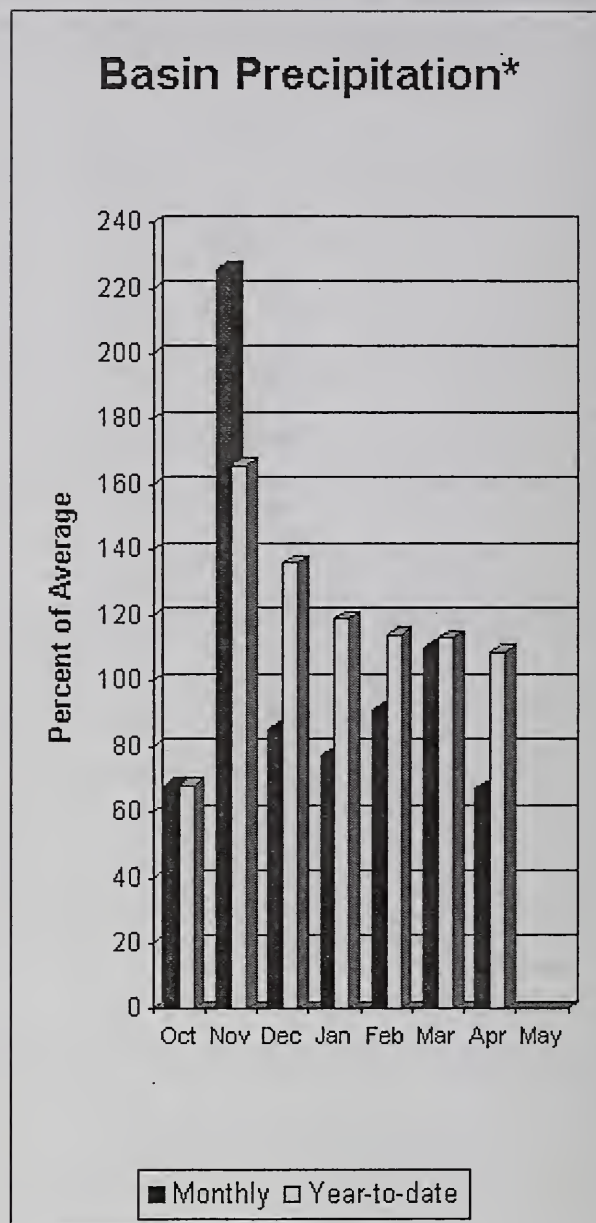
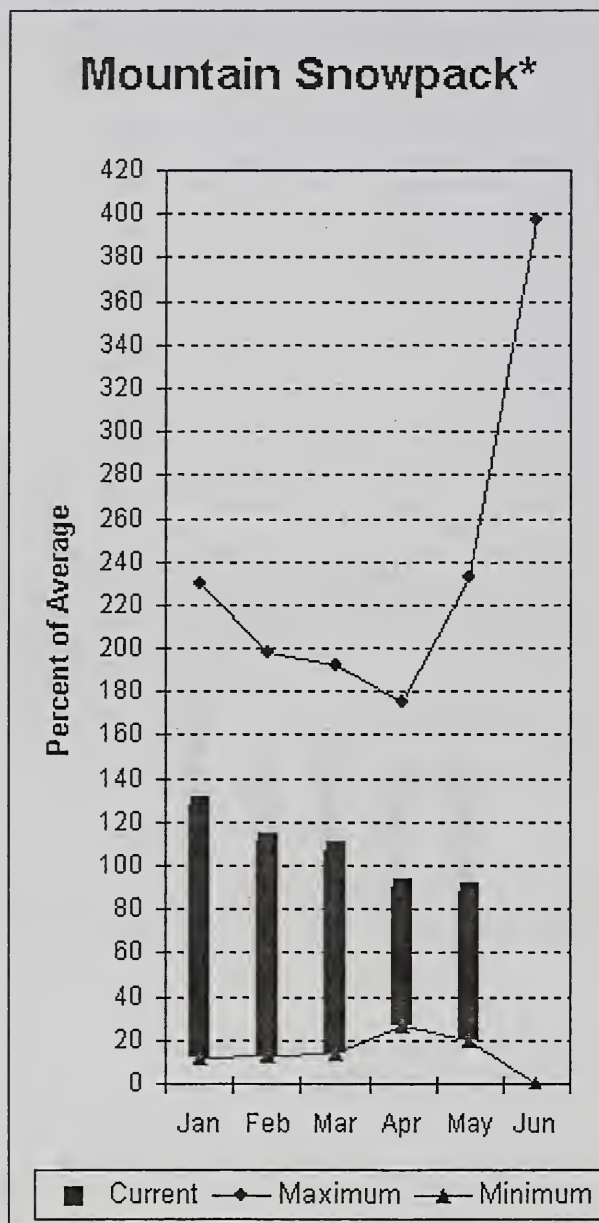
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MOSSYROCK	0.0	1290.9	1223.6	---	LEWIS RIVER	5	64	104
SWIFT	0.0	695.2	671.6	---	COWLITZ RIVER	6	82	96
YALE	0.0	386.3	383.4	---				
MERWIN	0.0	403.7	407.5	---				

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White - Green River Basins



*Based on selected stations

Summer runoff is forecast to be 82% of normal for the Green River below Howard Hanson Dam and 91% for the White River near Buckley. May 1 snowpack was 89% of average in the White River, 94% in the Puyallup River and 80% in Green River. Water content on May 1 at Corral Pass SNOTEL, at an elevation of 6,000 feet, was 34.9 inches. This site has a May 1 average of 35.3 inches. April precipitation was 67% of average, bringing the water year-to-date to 109% of average for the basins. Average temperatures in the area were 1-2 degrees above normal for April and 1 degree above for the water-year.

For more information contact your local Natural Resources Conservation Service office.

White - Green - Puyallup River Basins

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<===== Drier ===== Future Conditions ===== Wetter =====>						30-Yr Avg. (1000AF)
		===== Chance Of Exceeding * =====						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
WHITE near Buckley (1,2)	MAY-JUL	241	295	320	92	345	399	348
	MAY-SEP	314	373	400	91	427	486	442
GREEN R below Howard Hansen (1,2)	APR-JUL	178	207	220	91	233	262	243
	APR-SEP	202	235	250	93	265	298	268
	MAY-JUL	97	130	145	82	160	193	176
	MAY-SEP	111	148	165	82	182	219	202

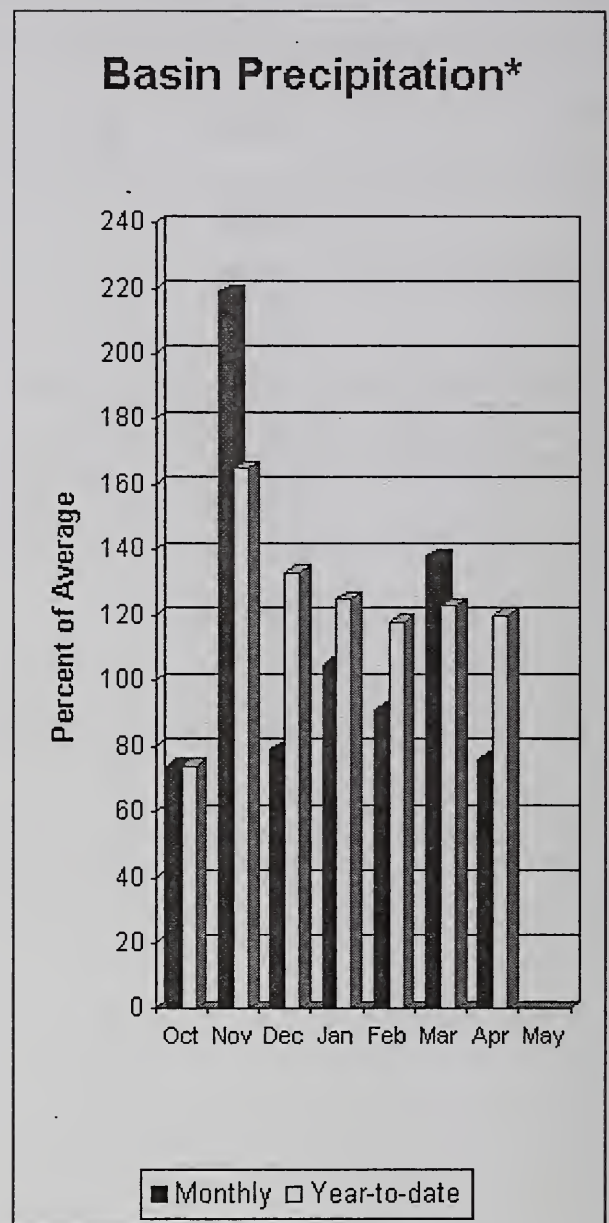
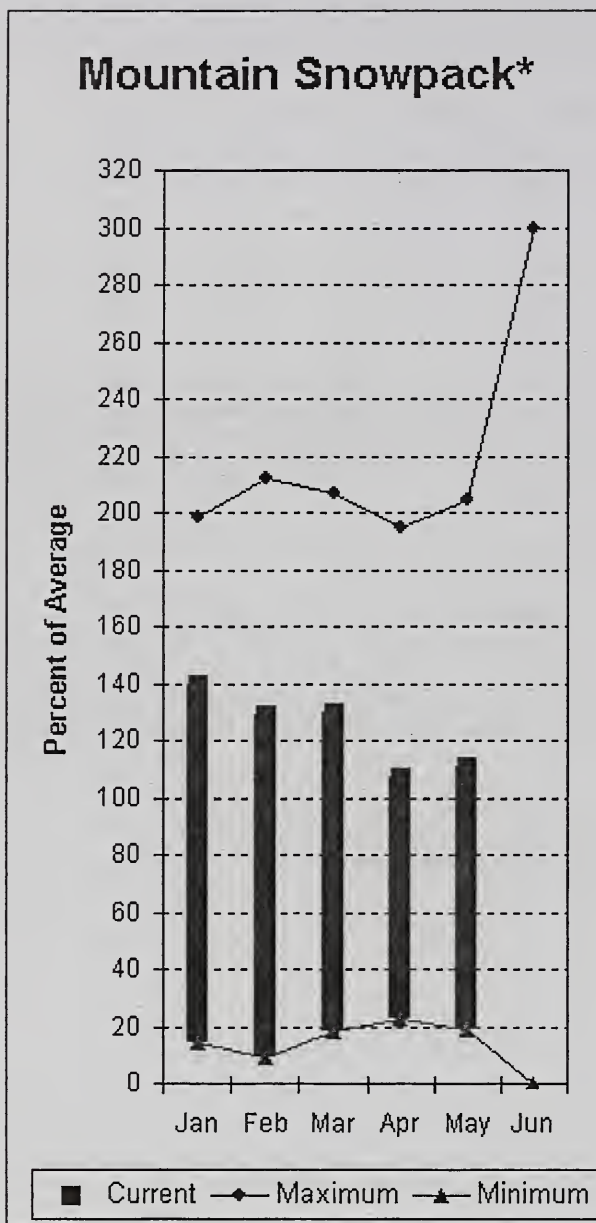
WHITE - GREEN - PUYALLUP RIVER BASINS Reservoir Storage (1000 AF) - End of April					WHITE - GREEN - PUYALLUP RIVER BASINS Watershed Snowpack Analysis - May 1, 2007			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					WHITE RIVER	2	75	89
					GREEN RIVER	2	78	77
					PUYALLUP RIVER	3	75	94

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

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Central Puget Sound River Basins



*Based on selected stations

Forecast for spring and summer flows are: 90% for Cedar River near Cedar Falls; 90% for Rex River; 105% for South Fork of the Tolt River; and 85% for Cedar River at Cedar Falls. Basin-wide precipitation for April was 76% of average, bringing water-year-to-date to 120% of average. May 1 average snow cover in Cedar River Basin was 126%, Tolt River Basin was 114%, Snoqualmie River Basin was 100%, and Skykomish River Basin was 103%. Olallie Meadows SNOTEL site, at 3960 feet, had 52.9 inches of water content. Average May 1 water content is 55.1 inches at Olallie Meadows. Temperatures were 1-2 degrees above average for April and near normal for the water-year.

For more information contact your local Natural Resources Conservation Service office.

Central Puget Sound River Basins

Streamflow Forecasts - May 1, 2007

		<<===== Drier ===== Future Conditions ===== Wetter =====>>						
Forecast Point	Forecast Period	Chance Of Exceeding *						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
=====								
CEDAR near Cedar Falls	MAY-JUL	34	41	46	89	51	58	52
	MAY-SEP	40	48	53	90	58	66	59
REX near Cedar Falls	MAY-JUL	9.5	12.8	15.0	86	17.2	21	17.4
	MAY-SEP	11.8	15.5	18.0	90	21	24	20
CEDAR RIVER at Cedar Falls	MAY-JUL	8.9	27	40	85	53	71	47
	MAY-SEP	2.9	24	39	85	54	75	46
SOUTH FORK TOLT near Index	MAY-JUL	8.9	10.4	11.4	104	12.4	13.9	11.0
	MAY-SEP	10.6	12.5	13.8	105	15.1	17.0	13.2

CENTRAL PUGET SOUND RIVER BASINS Reservoir Storage (1000 AF) - End of April

CENTRAL PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - May 1, 2007

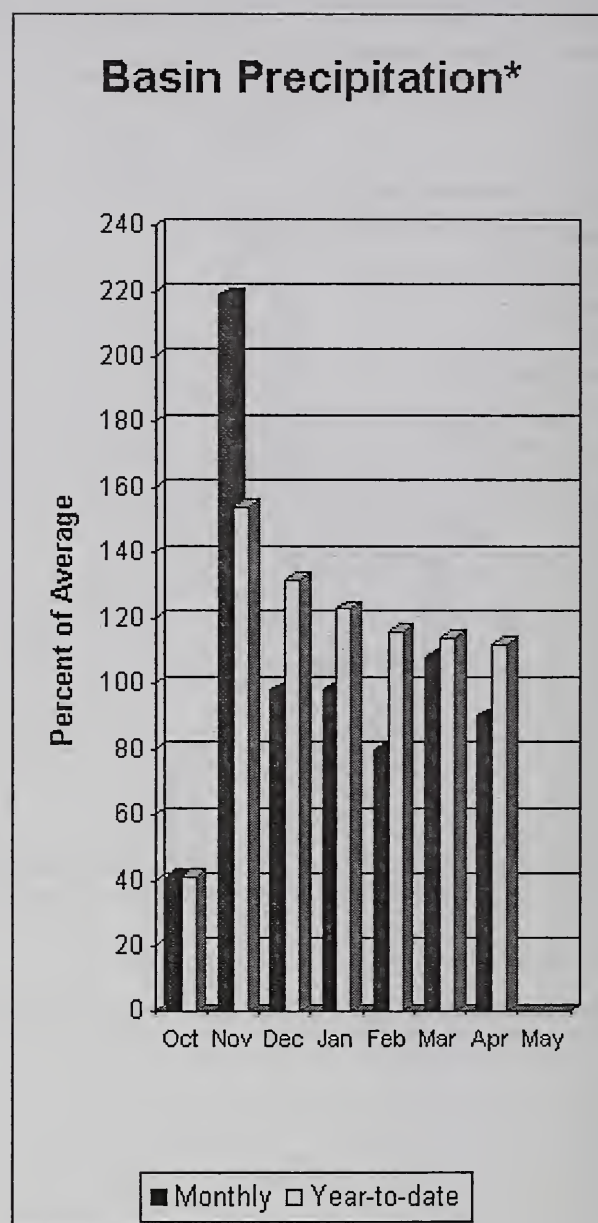
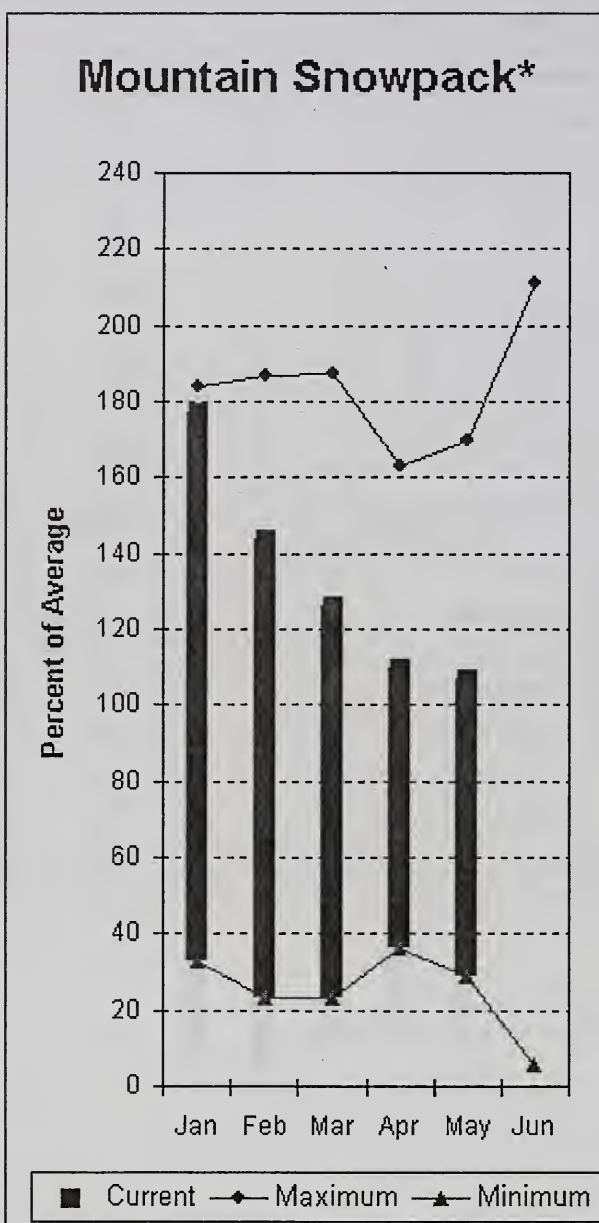
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					CEDAR RIVER	4	72	126
					TOLT RIVER	2	76	114
					SNOQUALMIE RIVER	4	80	100
					SKYKOMISH RIVER	2	85	103

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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North Puget Sound River Basins



*Based on selected stations

Forecast for Skagit River streamflow at Nehalem is 91% of average for the spring and summer period. April streamflow in Skagit River was 127% of average. Other forecast points included Baker River at 90% and Thunder Creek at 95% of average. Basin-wide precipitation for April was 90% of average, bringing water-year-to-date to 112% of average. May 1 average snow cover in Skagit River Basin was 106%, and Nooksack River Basin was 122%. Baker River Basin aerial snow surveys reported 95% normal snowpack. Rainy Pass SNOTEL, at 4,780 feet, had 33.9 inches of water content. Average May 1 water content is 43.2 inches at Rainy Pass. May 1 Skagit River reservoir storage was 120% of average and 64% of capacity. Average temperatures for the basin were near normal for the month and for the water year.

For more information contact your local Natural Resources Conservation Service office.

North Puget Sound River Basins

Streamflow Forecasts - May 1, 2007

Forecast Point	Forecast Period	<===== Drier ===== Future Conditions ===== Wetter =====>						30-Yr Avg. (1000AF)
		===== Chance Of Exceeding * =====						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
THUNDER CREEK near Newhalem	MAY-JUL	184	199	210	99	221	236	212
	MAY-SEP	269	285	295	95	305	321	310
SKAGIT at Newhalem (2)	MAY-JUL	1410	1496	1555	97	1614	1700	1611
	MAY-SEP	1623	1717	1780	91	1843	1937	1964
BAKER RIVER near Concrete	MAY-JUL	525	576	610	89	644	695	684
	MAY-SEP	688	763	815	90	867	942	906

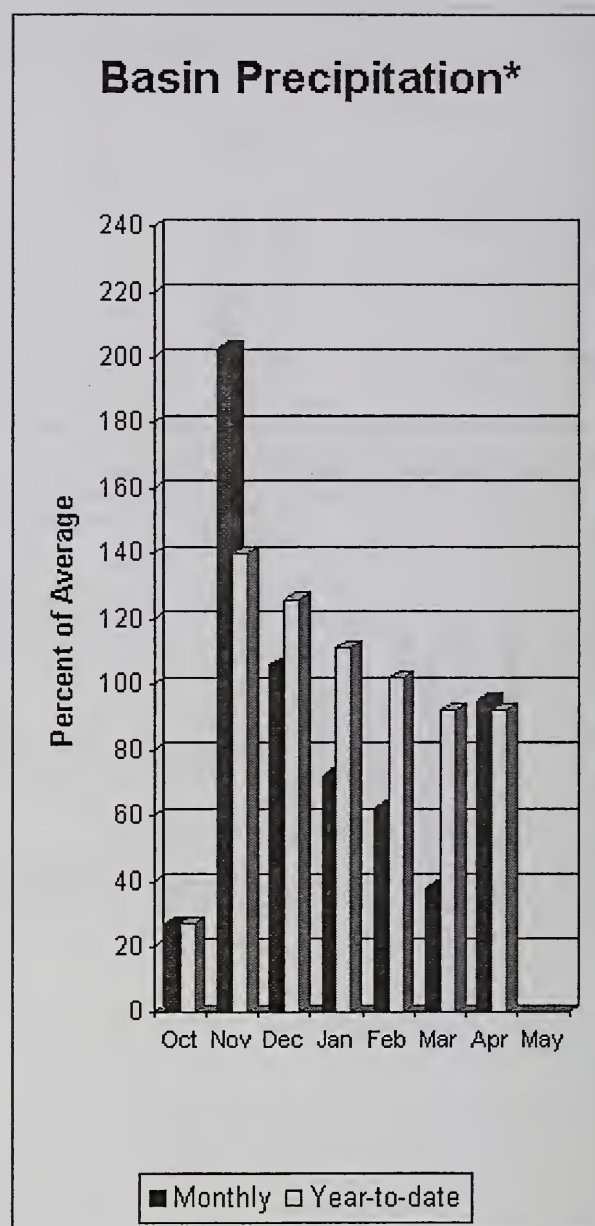
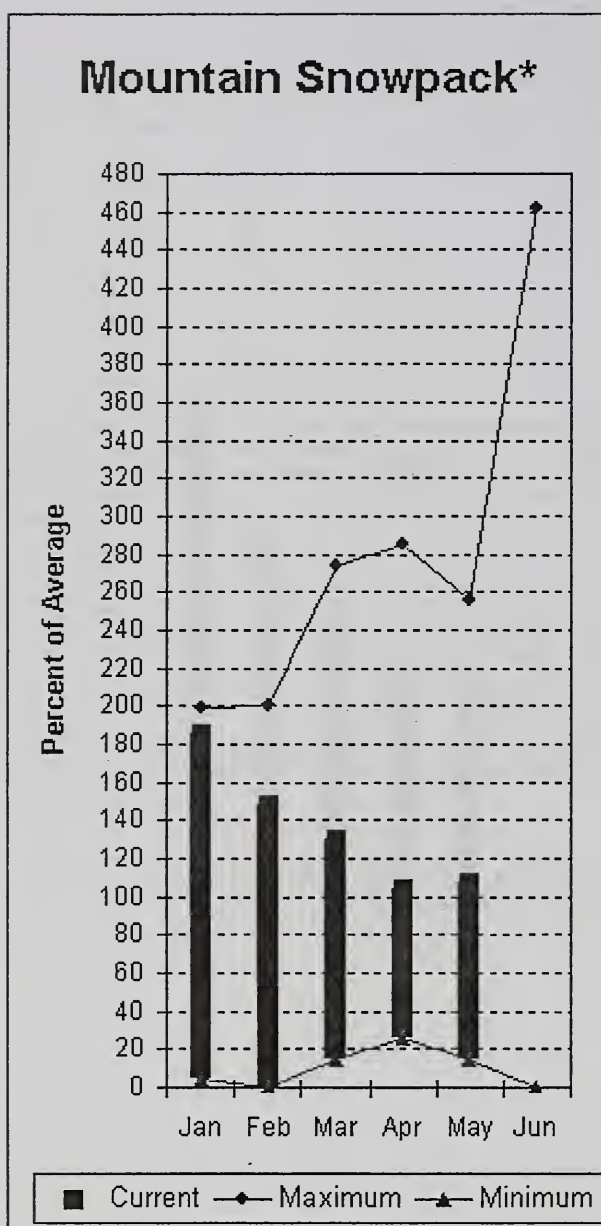
NORTH PUGET SOUND RIVER BASINS Reservoir Storage (1000 AF) - End of April					NORTH PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - May 1, 2007			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ROSS	1404.1	866.9	537.8	708.8	SKAGIT RIVER	15	106	105
DIABLO RESERVOIR	90.6	87.9	86.9	85.9	BAKER RIVER	0	0	0
					NOOKSACK RIVER	2	100	122

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

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Olympic Peninsula River Basins



*Based on selected stations

Forecasted average runoff for streamflow for the Dungeness and Elwha rivers is 95% and 89% respectively. April runoff in the Dungeness River was 108% of normal. Big Quilcene and Wynoochee rivers should expect near average runoff this summer also. April precipitation was only 95% of average. Precipitation has accumulated at 92% of average for the water year. April precipitation at Quillayute was 8.96 inches. The thirty-year average for April is 7.44 inches. Olympic Peninsula snowpack averaged 94% of normal on May 1. Temperatures were 1-2 degrees above average for April and 1 degree above average for the water year.

For more information contact your local Natural Resources Conservation Service office.

Olympic Peninsula River Basins

Streamflow Forecasts - May 1, 2007

		<===== Drier ===== Future Conditions ===== Wetter =====>>						
Forecast Point	Forecast Period	=====		Chance Of Exceeding *		=====		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
DUNGENESS near Sequim	MAY-SEP	111	119	125	95	131	139	132
	MAY-JUL	85	91	95	91	99	105	105
ELWHA near Port Angeles	MAY-SEP	330	357	375	89	393	420	423
	MAY-JUL	269	291	305	90	319	341	338

OLYMPIC PENINSULA RIVER BASINS Reservoir Storage (1000 AF) - End of April					OLYMPIC PENINSULA RIVER BASINS Watershed Snowpack Analysis - May 1, 2007			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					OLYMPIC PENINSULA	5	95	107

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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- (2) - The value is natural volume - actual volume may be affected by upstream water management.



Issued by

Arlen Lancaster
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Released by

R.L. "Gus" Hugbanks
State Conservationist
Natural Resources Conservation Service
Spokane, Washington

The Following Organizations Cooperate with the Natural Resources Conservation Service in Snow Survey Work*:

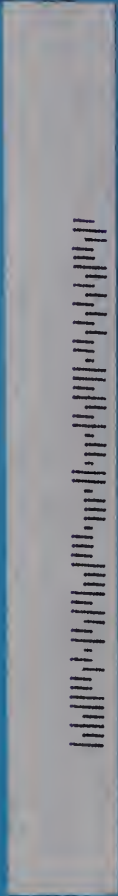
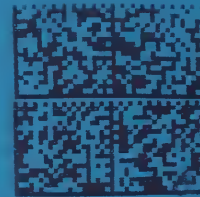
Canada	Ministry of Sustainable Resources Snow Survey, River Forecast Centre, Victoria, British Columbia
State	Washington State Department of Ecology Washington State Department of Natural Resources
Federal	Department of the Army Corps of Engineers U.S. Department of Agriculture Forest Service U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bonneville Power Administration Bureau of Reclamation Geological Survey National Park Service Bureau of Indian Affairs Recourse Conservation & Development Councils
Local	City of Tacoma City of Seattle Chelan County P.U.D. Pacific Power and Light Company Puget Sound Power and Light Company Washington Water Power Company Snohomish County P.U.D. Colville Confederated Tribes Spokane County Yakama Indian Nation Whatcom County Pierce County Kalispel Tribe of Indians Spokane Indian Tribe Jamestown S'klallum Tribe
Private	Okanogan Irrigation District Wenatchee Heights Irrigation District Newman Lake Homeowners Association Whitestone Reclamation District

*Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



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Natural Resources Conservation Service
Spokane, WA

